



Incident Response in Select Agent or Toxin Facilities

7 CFR Part 331.14, 9 CFR Part 121.14, 42 CFR Part 73.14

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Preface

Intent: The intent of this document is to provide practices and procedures that entities may use to assist them in developing and implementing the written incident response plan required by the select agent or toxin regulations. However, the ideas and suggestions provided in this document do not constitute or establish minimum acceptable standards that would automatically meet the requirements of title 7 of the *Code of Federal Regulations* (CFR) part 331.14, 9 CFR 121.14, or 42 CFR 73.14.

Revisions: This is a living document subject to ongoing improvement. Feedback or suggestions for improvement from registered select agent or toxin entities are welcomed. Submit comments directly to the select agent or toxin program at:

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SELECT AGENTS AND TOXINS INCIDENT RESPONSE PLAN GUIDE 7 CFR PART 331.14, 9 CFR 121.14, 42 CFR 73.14

Introduction

Under the provisions of 7 CFR §331.14, 9 CFR §121.14 and 42 CFR §73.14 an entity registered with the select agent program is required to have procedural actions in the event of a natural and/or man-made incident that could lead to a disaster creating the potential for a breach in bio-containment and possible release of select agents into the environment. With these provisions the select agent program can be assured that the select agents and toxins, which are in the possession of these entities, are routinely secured and safeguarded under watchful eyes.

Inasmuch that a direct man-made threat is possible, i.e. direct attack with the intent to steal select agents and toxins with a high probability for use as a weapon of mass destruction, our experience has shown that this likelihood is low. Unfortunately, the same cannot be said for natural disasters. A natural incident that could lead to a disaster is more likely to occur and threaten a registered entity. With these types of events the potential for breaching bio-containment and releasing a select agent or toxin into the environment is possible, increasing the risk to human and animal health exposures, and endangering plant agriculture.

This guide is to assist the regulated community in developing a site-specific incident response plan to ensure the security and safeguarding of select agents and toxins (human, animal and plant pathogens) from incidents that could lead to a natural or man-made disaster.

Section 1: Five Keys to successful incident response

- 1) It is focused on protecting human life when it is at risk before property
- 2) It is focused on the impact to the laboratory and not just the facility
- 3) It is the result of collaboration between entity leadership and responders
- 4) The responders participate in entity training
- 5) It addresses the primary effect of the hazard, the secondary effects, and the effect it has on the people who work at the facility and the environment

Section 2: What is an 'incident response' plan?

An incident response plan is nothing more than a set of standard operating procedures (SOPs). It's a key part of risk management, a way of planning for the hazards that cannot effectively be mitigated. *An incident is an*

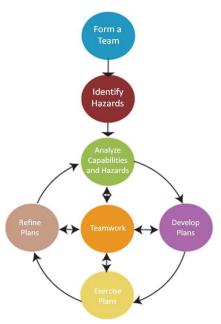


occurrence, natural or manmade, that requires a response to the theft, loss or release of the select agent or toxin or to protect human life, and animal and plant health. The incident response plan should focus on areas inside the laboratory or registered space.

The select agent program requires an incident response plan for certain incidents. As with the written security plan, the incident response plan must be site-specific which means that each section of the written plan must be a reflection of risk identified in the site specific risk assessment and the entity's actual policies and procedures relating to incident response. In developing the written incident response plan, the entity needs to factor in the agent specific consequence assessment as documented in the entity's written security plan.

The entity incident response plan must contain all of the requirements outlined in the select agent regulations. This includes theft, loss, or release of a select agent or toxin, inventory discrepancies, security breaches (including information systems), natural disasters, workplace violence, bomb threats, suspicious packages, and emergencies such as fire, gas leak, explosion, power outage, among others. Tab A contains a more detailed instruction on how to meet these requirements. Tab G contains a checklist to assist in compliance.

There are other statutes (federal, state and local government) that address emergency and incident response. The select agent incident response plan is not intended to preempt or supersede other response agreements or written plans provided that other plans and agreements address the requirements of Section 14 of the select agent regulations. If an entity chooses to use other plans as a means of meeting these requirements, Section 18 of the select agent regulations requires that this information be made available to APHIS and CDC staff when on-site inspections are conducted.

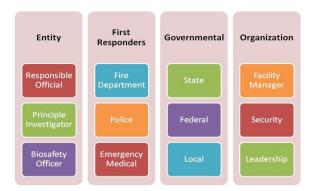


Section 3: The Incident Response Planning Cycle

Incident response planning can be viewed as a six step cycle. It begins with the formation of a team of subject matter experts (SMEs) and stakeholders. From there, the team analyzes the team's capabilities and all unmitigated hazards (human and natural). Next, the team develops an SOP or series of SOPs and plans for the incidents. Finally, the plan is exercised and modified at least annually.

Step 1: Form a team

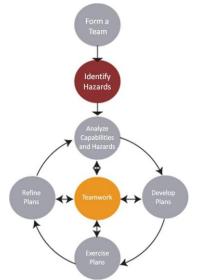
The first step is to form a team of both entity SME, supporting SMEs and stakeholders. The team should include entity professionals who are experts on the consequences of the agents and how the entity operates (its SOPs). Beyond that, the team should also include first responders knowledgeable of what capabilities they bring to the response effort. It may also include facilities managers and security personnel familiar with how the organization as



a whole responds. Finally, the entity may want to bring in state and federal partners as well.

Once the team is formed, it should remain engaged throughout the process. Each team member brings both skills and a unique perspective to the situation. At each step, the entity is strongly encouraged to consult team members.

Step 2: Identify Potential Hazards



The process begins with the SMEs and stakeholders determining the potential hazards. The entity identifies risks (probable hazards, high consequence events) that cannot be mitigated before a response is required. This should include those required by regulation (see Tab A,B), regional natural disasters (see Tab C) along with other hazards identified in the site-specific risk assessment. The entity also identifies what protective measures/equipment they have in place and where they are located. Finally, the entity should be prepared to discuss its own SOPs which affect incidents. This includes 'man-down' drills, evacuation procedures and others.

The first responders also bring critical information. They should be able to talk about what capability they bring (Hazmat, Police). Also, they should be able to talk about their

own SOPs and policies (i.e. HAZMAT decontamination requirements). They should know response times to the entity by hazard type and in multiple situations. Finally, they should also discuss contact and communication procedures beyond calling 911 (see Tab B, Appendix B).

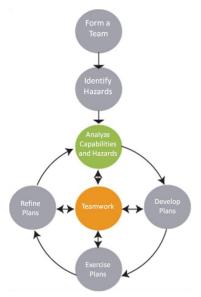
Facility management along with organizational safety and security personnel provide the final piece(s) of information. They should know the physical capabilities of the building(s) and what emergency equipment they have on hand. But this also includes existing policies and organization-wide procedures for managing incidents. This may include a 'workplace

violence' policy and memorandum of agreement with first responders. Finally, they may be the ones who must escort or otherwise grant access to first responders.

For natural hazards, there is information available from the federal government. Tab C includes lists of sites the entity should check along with suggested procedural steps. This includes 'hazard zone' for tornadoes, hurricanes and earthquakes. Beyond that, the suggested websites can give information such as flood and tidal surge (storm surge) maps. Entities should be aware of what hazards may directly impact their registered areas (labs, storage areas) along with the impacts of the event on their people and surrounding infrastructure (roads, power, etc...). Entities should also be aware and prepared for externalities of natural hazards as displayed in Tab C.

The entity should begin the discussion by describing itself to the responders. A physical walk through of the laboratory is recommended but rarely possible. Hence, entities should describe the layout of the registered spaces and the physical make up of the facility to include "Hot" or "No-Go" areas and warning signs.

Step 3: Analyze Capabilities against Hazards



The next step is to weigh capabilities against hazards. The select agent program requires the entity address certain hazards identified in Tab A and B. They can form the core of an incident response plan. Beyond that, the entity should also identify any risks that cannot be mitigated from the site specific risk assessment.

A simple means of conducting this analysis is through scenarios. These are a series of incident driven actions and events and provide a factual and logical framework for developing an SOP. The scenarios can assist in guiding discussion and help sequence response actions.

Scenarios can be analyzed in a number of ways. They could be "action/response" based where each action leads to a reaction and so on until the tasks are complete. They can also be

"functionally" based, where each organization talks through its internal SOPs and determines where they should overlap. They can be a "walk-through", where the team can actually see what's available, where equipment sits and where the clean/dirty areas are.

The analysis should also address second order effects to the entity. In simple terms, incidents lead to other incidents. An earthquake may cause a long term power outage or fire. A hurricane evacuation may prevent access to the facility. A fire suppression system may flood the effluent containment system. A break-in may damage biosafety cabinets. These factors should be discussed as the team moves through the scenario.

Scenarios should focus on key questions. Obviously, it should focus on "who must do what, when and where." But it should also define information requirements, what do the team members need to know when and who conveys the message (i.e. are all personnel evacuated and accounted for? Is the lab "clean"? and how, i.e. phone, text, face-to-face?). Beyond that, the scenario should answer equipment questions (how many HAZMAT suits do we need?). It should also define who's "in charge" at each step and what decisions have to be made when (i.e. let the structure burn).

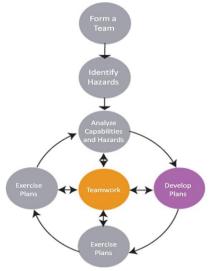
As part of this analysis, the entity should document both expectations and assumptions for all team members. These are important because if they are not met, the plan may not work. For example, if the entity assumes the access roads will be clear, that should be noted. If first responders expect another organization to support the incident, that should be noted as well.

Also, the entity should identify constraints. These are things the response team(s) must do or cannot do. For example, if the entity has a person with special needs, they may not be able to evacuate on their own so they must get help. If the police do not have Personal Protective Equipment (PPE) or are not trained to use it, they must not enter the laboratory.

This analysis may lead to capability gaps. These are required capabilities the team members do not have. The scenario may identify a need for specialized HAZMAT gear the first responders lack. If the entity finds they lack access to critical equipment, they are encouraged to reach out and add team members who have this equipment.

Finally, the entity should focus on the inside of laboratory, not simply the structure. Building codes will generally ensure the facility can survive any probable disaster. However, they will not address loss of primary and secondary containment, animal husbandry issues, spilled vials of agent, loss of power to a freezer, etc....

Step 4: Develop a plan(s) by incident type.



The next step is to develop a plan or series of plans based on the scenarios. Plans do not have to be complex and more is not necessarily better. Plans should be simple only containing required steps. They should be clear so that anyone can understand them. They should be concise and easy to read by laboratorians and responders alike. Finally, they should be complete covering all required hazards and meeting all regulatory requirements.

To meet this end state, entities are encouraged to develop playbooks. A playbook is a series of simple plans / SOPs that cover the multiple incidents identified in the analysis stage. The responses are 'layered' based on the incident. Like a "Playbook" they are common procedures or strategies which

apply to multiple situations. Instead of focusing on nuances of each event, an entity can

focus on common steps and then apply them to various incidents. This not only makes incident response easier for individuals to understand it also makes it much easier to train.

For example, an entity may have 3 incident SOPs. The first is "without notice" where entity personnel evacuate immediately without doffing PPE and would include explosion, gas leak, workplace violence and possibly fire. The



second could be "with minimal notice" where entity personnel can doff PPE and secure but not evacuate the select agents or toxin. This may include minor earthquake, tornado, civil disturbance or possibly fire. The third could be "with notice." In this case, the select agent can be safely secured or evacuated to an alternate location. An example would be a hurricane or flood.

Entities can also modify existing organizational plans to meet laboratory conditions. Many organizations have existing plans which can be quickly modified to suit laboratory requirements. Using this technique ensures agreement with other organizational policies. However, with this technique, the entity must modify its plan every time the organizational plan changes.

Entities can also create a different plan for each incident and regulatory requirement. An entity could then cover the nuances of each scenario and direct specific actions based upon them. This allows for a detailed understanding of many SOPs.

Finally, there are incidents which don't fit cleanly into a playbook. They may be laboratory-specific and not organization wide. These are usually for regulatory reason or because of organizational policy. For example, Section 14 requires the entity address theft/loss/release or inventory discrepancy. State and local governments may have additional requirements as well. The entity may have to create a separate document for these requirements.

Regardless of the method, each plan/play should contain common information (see Tab B for detailed discussion):

- 1. What incidents the plan covers
- 2. Concept (What are you trying to do? When are you done?)
- 3. Entity and organizational responsibilities/tasks (What will the entity do? Who does it/when? What is the entity responsible for?)
- 4. First responder actions/tasks (What will they/Won't they do?)
- 5. Entity lines of authority (Who has the authority to call this kind of response? Who's next in charge?)
- 6. Decontamination procedures (Do you doff? If not, how do you separate contaminated personnel?)
- 7. Emergency equipment (Where is it? How does it apply? Who uses it?)

- 8. Procedures for emergency evacuation, including type of evacuation, exit route assignments, safe distances, and places of refuge (How do you get out? Where do you go once you leave the lab?)
- 9. Personnel accountability (Who accounts for personnel and who is notified once personnel are accounted for?).
- 10. Procedures to be followed by employees performing rescue or medical duties and the location (Where do you conduct immediate care? Where do you conduct follow up?)
- 11. Location where the first responders will pick up a patient and what amount of decontamination must be done (Doffing, showering out) (consult the first responders on what their requirements for transport are).
- 12. Contacts and communication plan (Who calls 911? Who notifies the RO or management? Is anyone else notified?)
- 13. Site security and control (How do you manage access to the facility during and after the incident, where's the perimeter, etc....?)
- 14. Return procedures (Under what conditions and how do you return to the lab, check containment, etc)
- 15. Select Agent (and other high value items) accountability
- 16. Medical Surveillance (if required)

The entity's focus remains on the laboratory and the unique consequences of the incident. The goal is not to preserve property, the facility or structure. It is to protect life while mitigating exposures or releases.

Once drafted, the plan should be reviewed for completeness. The plan should cover all identified scenarios and meet all regulatory requirements (see Tab "D" and "E" for an example of cross walks). It should also have each team member's task(s) and purpose(s) for each step of the process. If the team made critical assumptions, they should be noted as well. Finally, it should be written in a way that anyone (not just the team members) can understand it.

Once the plan is complete, the entity should get buy-in from the team members' leadership and other stakeholders. Leaders should acknowledge their responsibilities and confirm that they have the capability to carry them out. Stakeholders should concur with the concept of the plan and ensure it does not conflict with other policies.

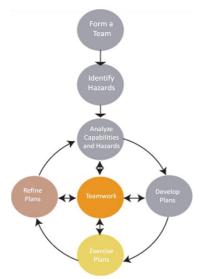
Step 5: Exercise the plan

The select agent program requires the entity exercise their plan at least annually. This may be a table top, a walkthrough, a drill or a full scale exercise. Regardless, entities are strongly encouraged to have representatives from all the planning team's organizations participate. This should include the first responders, key organizational members (facilities management, security, etc...) along with all entity personnel.

This is another reason to focus the plans. Simple SOPs based on common steps allow an entity to focus its valuable training time on the most important tasks. The team members (first responders) have less of training overhead as well. Finally, it may be better to be very good with a few key SOPs than marginal on many.

Step 6: Refine and Update Plans

Entities must refine and update their plan(s) at least annually, after each exercise or after a plan is executed. This is not a matter of re-signing the document; the entity should revalidate or modify the plan. To do this, entities should re-establish the planning team of SMEs and



stakeholders and go through the cycle again. Though they do not need to re-write the plan, they should address any changes that occurred during the year. They should address at minimum:

Results of training (what went well, what can be improved, changes
made)
Any changes to threats or hazards
Any changes to expectations or assumptions from the original plan
Any new equipment, its capabilities and locations including first
responders (new PPE, new HAZMAT vehicle)
Any changes to the entity (additional registered space)
Any changes in key personnel or organizations, including first responders
Changes to the agents which affect response (adding a Tier 1 agent)
Specific threats against the entity or its personnel
Any changes in communications
Critical changes to regulatory requirements, including those which affect
first responders

Tabs

Tab A: Incident Response Plan Scenario Requirements (Section 14 (b))

The incident response plan must fully describe the entity's response for the following procedures in the chart below.

Subject	Definition	Characteristics
Theft, loss or	The entity plan must provide details regarding	Lab spills; missing
release of a select	how a theft, loss or release of a select agent or	order; unexplained
agent or toxin	toxin is handled and reported (see section	missing
	19(a)(b) of the select agent regulations).	
Inventory	Section 17(a)(6) of the select agent final rule	Missing Material
discrepancies	requires a section to record discrepancies on	
	the entity's inventory.	
Security breaches	A security breach occurs when there is a	
	disruption in the established security network	
	or a failure to follow the entity's written	
	security policies and procedures. Breaches	
	involve all levels of security including physical	
	security (hardened, fixed systems), operational	
	security (personnel reliability) and information	
,	systems (electronic and hard copy material).	
Severe weather	Severe weather and natural disasters vary from	Tornado Warnings;
and other natural	one geographic location to another within the	Flood Warnings
disasters	United States. Severe weather situations and	
	natural disasters include tropical storms,	
	hurricanes, tornadoes, windstorms,	
	thunderstorms, lightning, hail, floods,	
	earthquakes, fires and winter storms (not all	
YAZ - J J	inclusive).	Г
Workplace	Violence in the workplace is an uncommon	Employee
violence	event. In the extreme, violence may escalate to	intimidated by
	the point where a conventional weapon such as	threat or force.
	a knife or gun may be used. Threats may be	Employees are
	real or implied. Harassment is considered a	physically threatened or
	form of threat. Threats or harassing incidents can take on many forms including, but not	harmed in the
	limited to, telephone calls, letters, face-to-face	workplace
	conversations, physical altercations, vandalism,	Workplace
	following or stalking and assault on an	
	employee or family. Response information	
	(protocols) should be accessible to all	
	personnel so there are mechanisms in place to	
	report any situation that could lead to and	
	escalate violence.	
	Cocarate violence.	

Bomb Threats	Bomb threats have become common means to disrupt workplace activity. Most incident response and occupant emergency plans at the state and federal level as well as colleges and universities have their own bomb threat policy.	Any object that appears suspicious or looks like it might be explosive
Suspicious packages	Once a suspicious package has been discovered, the incident response plan is immediately activated. The plan must outline procedures to be followed such as how the package is handled, who is consulted and whether or not the packages can be safely removed from the premises for further examination and analysis.	letter, package, or other container containing a substance you feel may have contaminated you or someone else or appears suspicious to the person receiving it.
Fire	Fire is one of the most common events an entity may encounter. Contributing factors to fire related deaths are unsafe acts, conditions and improper training.	Detection of smoke or fire; Fire Alarm sounds
Gas leak	If a gas leak is reported or suspected, the incident response plan should direct that safety of employees be the utmost consideration.	
Power Outage	Power failures are unpredictable and power supply systems, including backup power varies from one laboratory to another. It is important to remember that backup systems do not always provide full power to support all lighting, ventilation, alarm and communication systems.	No Electrical power; limited generator power
Select agent and toxin hazards		
Internal	The training requirements outlined in Section 15(a) of the select agent final rule requires that individuals with access approval for select agents and toxins be trained initially with refresher training provided annually.	incidents that can be handled by internal lab staff
External	All select agent laboratories need to establish contact with their local police, fire and rescue departments to make them aware of the hazards they may encounter when responding to laboratory emergencies and the site-security control after an incident.	incidents that cannot be handled by internal lab staff and need outside assistance to work on the issue.

Tab B: Incident Response Plan Administrative Requirements (Section 14 (c) (1-4)

Emergency Contact Information

When developing critical emergency contact information the entity needs to assess the roles and responsibilities of each identified person. The structure should be concise and easily understood in order to facilitate the activation of the incident response plan. All contact information should be site-specific and focused on support units that are available within the geographic region of the facility, especially if the entity is relying on local support of first responders. Entities that are associated with larger parent organizations (i.e., colleges, universities, federal or state campuses and research medical institutions) need to incorporate or integrate their site-specific incident response requirements with established entity-wide emergency response programs. This integration will assure that when emergency services are required, the first responders will be familiar with the requirements of the site-specific plan. APPENDIX B is a sample matrix for contact information required in Section 14 (c) (1-4) of the final rule.

Personal roles and lines of authority and communication

During an actual incident, arbitrarily assigning responsibilities would lead to inconsistencies and most likely result in a less than favorable outcome. For this reason roles and responsibilities need to be identified beforehand. In addition to roles and responsibilities, it is important that all participants understand the lines of authority and how information is communicated both up and down the chain of command.

Planning and coordination with local emergency responders

In addition to the information included in the select agent and toxin hazards section listed above, the importance of meeting with local emergency responders to discuss large scale disasters is important. An incident such as a hurricane or tornado could trigger a national emergency which could directly affect the select agent laboratory. It is important that discussions with local responders include these types of disasters and an agreement reached regarding the roles and responsibilities of each party.

Procedures to be followed by employees performing rescue and medical duties

Rescue and medical duties should be limited to only those individuals that are qualified to perform these duties (paramedic, EMT, registered nurse, physician assistant, medical doctor, osteopathic physician). When qualified individuals are not available, 911 should be called. Trained staff to perform emergency first aid and CPR may be a consideration in laboratories that are located in remote areas that do not have a 911 service or there is a delayed ambulance response time.

Emergency medical treatment and first aid

The incident response plan needs to establish provisions for emergency medical treatment and first aid for employees injured on the job. Since occupational injuries and illnesses are work related, worker's compensation rules may apply. It is important to check with the personnel department (human resources) to determine if employees have to report to a prearranged emergency treatment center or clinic. In any event, workers need to know where to go or be transported for emergency medical treatment or first aid. In laboratories that are regulated by state or federal OSHA (Occupational Safety and Health Administration), an injury log (OSHA 300) will be required to record all injuries that result in lost time or in medical treatment.

List of personal protective and emergency equipment, and their locations

The incident response plan needs to identify what personal protective equipment (PPE) and emergency equipment is needed and state where it is located. The laboratory should consider including a floor plan showing the PPE and emergency equipment locations. Examples of PPE include gloves, protective eyewear, face shields, respirators, foot protection, gowns, scrubs, etc. (this list not exhaustive) Examples of emergency equipment include fire extinguishers, emergency showers, fire blankets, eye wash stations, portable lighting, etc. (this list not exhaustive)

Site security and control

When an incident occurs, regardless of size, site security and control must be maintained. There may be a tendency to overlook site security due to the urgency to bring an incident under control. This is another instance where planning with the local responders is important. First responders need to know that access to restricted areas need to be controlled during and after each incident. Some of the typical methods used to maintain site security control include a posted armed police officer or guard, yellow "caution" tape around the perimeter, "keep out" signs, emergency lighting, etc.

Procedures for emergency evacuation

Whether select agent related or not, the incident response plan should define the different types of evacuations that may be encountered such as fire, bomb, chemical spill, hostage, civil disturbance, explosion, etc. Floor plans that show the primary and secondary emergency exit routes should be posted on each floor and included in the incident response plan. Employees need to evacuate to areas that are safely out of harm's way to the designated assembly area for roll call verification. In determining safe distances for evacuation the worst case scenario should be considered. When a warning is received regarding an impending disaster, the incident response plan should designate areas for safe refuge until the warning expires or the threat no longer exists.

Decontamination procedures

Decontamination procedures need to be described in the incident response plan and should include a decontamination procedure for spills, injured select agent workers, emergency responders and laboratory rooms and areas that require mass decontamination.

TAB B/APPENDIX A

Sample Bomb Threat Checklist

Following is information to be recorded by a bomb threat message recipient during or immediately after the threat is communicated.

•	Date		
	Time		
•	Time Caller Hung Up		
•	Phone Number Where Call Was Received		
Que	stions to ask Caller:		
	Where is the bomb located? (Building, Floor, Room, etc.)		
•	When will it go off?		
	What does it look like?		
	What kind of bomb is it?		
	What will make it explode?		
	Did you place the bomb? (Yes, No)		
	Why?		
	What is your name?		
	Where are you?		
Reco	ord Exact Words of Threat:		
Call	er's Voice		
	Accent		
	Angry	Вас	kground Sounds:
	Calm		Animal Noises
	Clearing throat		House Noises
	Coughing		Kitchen Noises
	Cracking voice		Street Noises
	Crying Deep		Booth
<u> </u>	Deep breathing		PA System
ā	Disguised		Conversation
	Distinct		Music
	Excited		Motor Clear
	Female	_	Static
	Laughter		Office machinery
	Lisp		Factory machinery
	Loud		Local
	Male		Long distance
_	Nasal Normal	The	reat Language:
	Ragged		eat Language: Incoherent Message Read
	Rapid		Taped
_	Raspy	ā	Irrational
<u> </u>	Slow		Profane
	Slurred		Well-spoken
	Soft		Machinery
	Stutter		Local
			Long distance

TAB B/APPENDIX B

Sample Incident Response Plan Contact Information

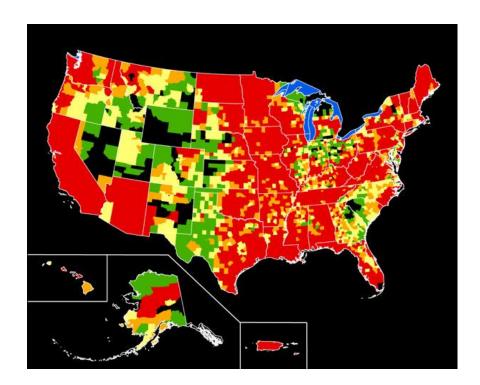
Incident Response Plan Contact Information (Section 14 (c) (1-4)							
	Entity Name:						
Address:							
City and State:							
SA Registration							
Contact Name	Work	Home	Cell	Responsibility			
			Entity Sele	ect Agent Program			
RO							
ARO							
PI #1							
PI #2							
Security							
(Bio)Safety							
CDC							
USDA							
			Faci	lity Affiliates			
Owner							
Manager							
Engineer							
Security							
Tenant #1							
Tenant #2							
			Facility	Support Units			
Electric							
Water							
Gas							
Telephone	·		·				
			Emergency	Response Support			
Police	·		·				
Fire							
Rescue							
Medical							
Environmental							
Public Health							

Tab C: Evaluating Natural Hazard:

Procedural Steps

Floods

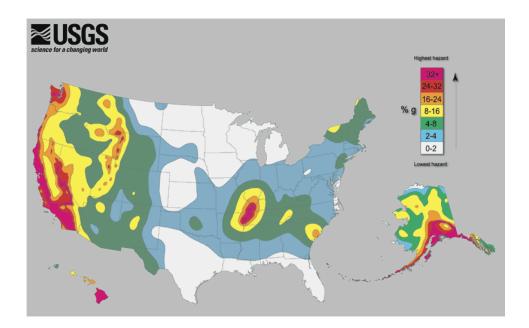
- a. Go to the U.S. Geological Survey website (http://www.usgs.gov/) and pull up the most recent map with the Number of Presidential Disaster Declarations for floods.
- b. Go to the U.S. Federal Emergency Management website dedicated to floods (http://www.fema.gov/hazard/flood/index.shtm).
- c. Go to flood maps and put the address of your entity into the search by address link to pull up the most recent flood map in your area.
- d. The Number of Presidential Disaster Declarations for floods in the United States and Puerto Rico shows the areas where a disaster declaration for flooding has occurred in the last 40 years.
- e. FEMA flood map shows the flood plains for your area.
- f. If your entity is located in a flood plain or in an area where a federal disaster has been declared in the last 50 years make sure you include a section dedicated to floods in your incident response plan.



Presidential disaster declarations related to flooding in the United States, shown by county: Green areas represent one declaration; yellow areas represent two declarations; orange areas represent three declarations; red areas represent four or more declarations between June 1, 1965, and June 1, 2003.

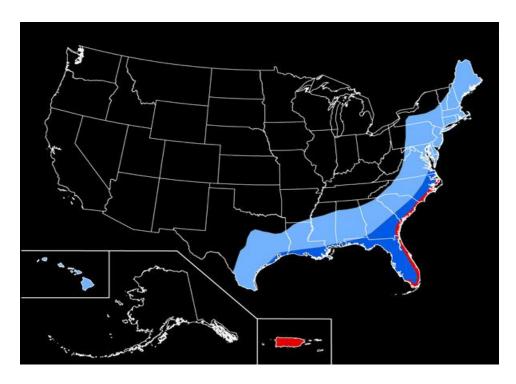
Earthquakes

- a. Go to the U.S. Geological Survey website (http://www.usgs.gov/) and pull up the 50- year time period map.
- b. The 50 year time period map shows relative shaking hazards in the United States and Puerto Rico. During a 50-year time period, the probability of strong shaking increases from very low, to moderate, to high.
- c. If your entity is located in a moderate or high area make sure you include an incident response plan for earthquakes.



Hurricanes

- a. Go to the National Hurricane Center website (http://www.nhc.noaa.gov/) and pull up the 50- year time period map.
- b. Click on the "General Climatology" tab on the left side of the home page and evaluate the maps, especially the Climatological Areas of Origin and Typical Hurricane Tracks by Month maps.
- c. If your entity is located in a moderate or high area make sure you include an incident response plan for hurricanes.
- d. You can divide your plan into three parts, 1 for minor and the other for major.
 - i. Minor Minor hurricanes are category 1 and 2. Most buildings built in the coastal area are built to handle a category 2 and below.
 - ii. Major Major hurricanes are Category 3 and above. These hurricanes do the most damage.
 - iii. Other complications Hurricanes often produce other weather phenomena such as floods and tornadoes. Make sure you account for the expected flooding and tornadoes that accompany hurricanes.



Tornadoes

- a. Go to the U.S. Geological Survey website (http://www.nssl.noaa.gov/primer/tornado/tor_climatology.html) and pull up Tornado Alley map.
- b. The Tornado Alley map displays the area most susceptible to tornadoes.
- c. In addition to the areas highlighted on the Tornado Alley map, all entities within the following states are expected to include tornadoes in their incident management plan: Texas, Oklahoma, Kansas, Nebraska, and Iowa



Tsunamis

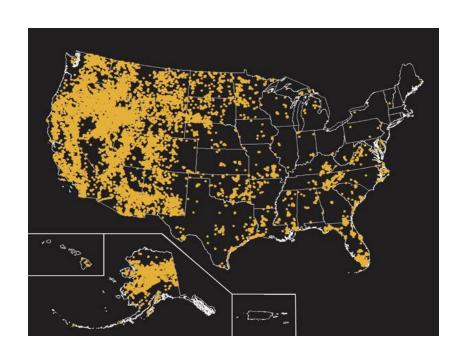
- a. Go to the U.S. National Oceanic and Atmospheric Administration website dedicated to tsunamis. (http://www.tsunami.noaa.gov/) and pull up the map that show tsunami events in the US.
- b. If your entity is located in a moderate or high area make sure you include an incident response plan for tsunamis.
- c. In addition to those entities close enough to be affected by the coast, all entities within 10 miles of the coast should have a tsunami section in their incident response plan.
 - i. Tsunami may not affect their entity with water but it could affect traffic into the entity, it may also affect personnel who have to go to work.
 - ii. Evaluate how a tsunami would affect your entity indirectly.

Volcanoes

- a. Go to the U.S. Geological Survey website (http://www.usgs.gov/) and pull up a map indicating where the 170 volcanoes are located in the US.
- b. If your entity is located within 50 miles of a volcano make sure you include an incident response plan for volcanoes.
 - i. If you are out of the area of being affected by lava and flying debris you still may be affected by smoke and dark clouds of smut. Make sure your entity is prepared for these possible side effects.

Wildfires

- a. Go to the U.S. Geological Survey website (http://www.usgs.gov/) and pull up the latest map which includes wildfires that have affected more than 250 acres.
- b. If your entity is located within 15 miles of a wildfire make sure you include an incident response plan for wildfires.
 - i. If you are out of the area of being affected by direct fire you still may be affected by smoke and dark clouds. Make sure your entity is prepared for these possible side effects.



Tab D: Playbook-Scenario Crosswalk for Select Agents (compares "Playbook" or SOPs to ensure an entity meets the select agent requirement)

If an entity chooses to adopt a 'playbook' approach (a few SOPs that cover multiple events), it must ensure all select agent requirements are met. This is an example of a simple matrix which correlates the SOPs to the Select Agent requirements to ensure they are met.

For this example, the entity has four SOPs ('plays') which it has mapped back to the select agent requirements.

Incidents Addressed	SOP Which Addresses Requirement						
incidents Addressed	No notice SOP	Minimal Notice SOP	With Notice SOP	After the Fact SOP	Other		
Workplace Violence	Х						
Bomb Threats		Х					
Suspicious Packages		X					
Natural Disasters							
Earthquake	Χ						
Hurricane			Χ				
Flood			Х				
Tornado		Х					
Severe Weather (Winds/Storm)		Х					
Severe Storm (Ice, Snow)			Х				
Fire		X					
Gas Leak		Х					
Explosion	Χ						
Information Systems Breach					X		
Power Outage	Х						
Security Breaches				Х			
Inventory				Х			
Discrepancies							
Theft, Loss, Release					Х		
Directed Evacuation		X	Х				

Tab E: Scenario- Plan Crosswalk (compares multiple organizational plans to ensure an entity meets the Select Agent Program)

If the entity consolidates existing plans into an incident response SOP, it must also be mapped back to the select agent requirements. This matrix assists in the mapping.

	Does the incident response plan cover:	SOP Number/Name	Date Modified	Remarks
Workplace Violence	Yes/No			
Bomb Threats	Yes/No			
Suspicious Packages	Yes/No			
Natural Disasters	Yes/No			
Fire	Yes/No			
Gas Leak	Yes/No			
Explosion	Yes/No			
Information Systems Breach	Yes/No			
Power Outage	Yes/No			
Security Breaches	Yes/No			
Inventory Discrepancies	Yes/No			
Theft, Loss, Release	Yes/No			

Tab F: Natural Disaster External Coordination Chart

Event & Source	Source	Severity	Externalities	Incident Plan	Post Response
Tropical Weather	State EOC*, www.noaa.gov and local media	Tropical Storm	Floods, Tornadoes		
	State EOC*, www.noaa.gov and local media	Hurricane Category 1 & 2	Storm Surge, Floods, Tornadoes		
	State EOC*, www.noaa.gov and local media	Hurricane Category 3 & 4	Storm Surge, Floods, Tornadoes		
Earthquake	State EOC*, www.usgs.gov, local and national media	5.0 – 6.4	Power Outage, Infrastructure Damage		
	State EOC*, www.usgs.gov, local and national media	6.5 or greater	Power Outage, Infrastructure Damage		
Tornado	State EOC*, local and national media	Any tornado	Power Outage		
Flood	State EOC*, local and national media	Any flood near an entity	N/A		
Volcano Eruption	State EOC*, local and national media	Any eruption near an entity	Too much dust in HEPA Filters		
Wildfire	State EOC*, local and national media	Any wildfire near an entity	Too much smoke in HEPA Filters		

• * - State Emergency Operation Centers (EOCs)- will likely have information on predicted paths, expected damages, evacuation routes, damage to infrastructure, federal and state declaration

Tab G: Incident Response Plan Validation:

Does the Plan(s) Contain:

boes the Francis contain.	Yes	No
(1) The name and contact information (e.g., home and work) for the individual or entity (e.g., responsible official, alternate responsible official(s), biosafety officer, etc.),		
(2) The name and contact information for the building owner and/or manager, where applicable,		
(3) The name and contact information for tenant offices, where applicable,		
(4) The name and contact information for the physical security official for the building, where applicable,		
(5) Personnel roles and lines of authority and communication,		
(6) Planning and coordination with local emergency responders,		
(7) Procedures to be followed by employees performing rescue or medical duties,		
- (1) The name and contact information (e.g., home and work) for the individual or entity (e.g., responsible official, alternate responsible official(s), biosafety officer, etc.),		
- (2) The name and contact information for the building owner and/or manager, where applicable,		
- (3) The name and contact information for tenant offices, where applicable,		
(8) The name and contact information for the physical security official for the building, where applicable,		
(9) Personnel roles and lines of authority and communication,		
(10) Planning and coordination with local emergency responders,		
(11) Procedures to be followed by employees performing rescue or medical duties, (12) Emergency medical treatment and first aid,		
(13) A list of personal protective and emergency equipment, and their locations,		
(14) Site security and control,		
(15) Procedures for emergency evacuation, including type of evacuation, exit route assignments, safe distances, and places of refuge, (16) Decontamination procedures		

Does the Plan(s) Cover:

	Yes	No
(1) Theft, loss, or release of a select agent or toxin		
(2) Inventory discrepancies		
(3) Security breaches (including information systems)		
(4) Severe weather and other natural disasters		
(5) Workplace violence		
(6) Bomb threats		
(7) Suspicious packages		
(8) Emergencies such as fire, gas leak, explosion, power outage		

Tab H: References

Federal Select Agent Program:

http://www.selectagents.gov/

CDC Emergency Response Resources:

http://www.cdc.gov/niosh/topics/emres/business.html

FEMA Emergency Management Guide for Business and Industry:

http://www.fema.gov/pdf/library/bizindst.pdf

National Oceanic and Atmospheric Administration (NOAA):

http://www.noaa.gov/

U.S. Geological Survey (USGS):

http://www.usgs.gov/

U.S. Small Business Administration SBA:

http://www.sba.gov/category/navigation-structure/starting-managing-

business/managing-business/running-business/emergency-preparedness-and-disaster-