# CODE BROWN

**Hazardous Spill** 

# **Upon Discovering a Hazardous Spill**

# All Staff Assess

Assess the severity of the spill and determine appropriate course of action

Refer to Page 11

#### **Switchboard**

- Announce Code Brown and Location
- Notify Affected Area Manager/Delegate
- Notify Security (4142)
- Contact the Fire Department if requested

Refer to Page 21

# Manageable (Minor)

#### Contain

Clear the area of patients and visitors Dam the spill with available materials Refer to Page 11

#### Refer to MSDS/SDS

Initiate cleanup in accordance with MSDS/SDS guidelines

# Not Manageable (Major/Unknown)

#### **Dial 4444**

- Advise of exact location and type of spill
- Attempt to contain the area (if capable)
- Pull the fire alarm for chemical spills
- Secure the area, evacuate as necessary

Refer to Page 11

#### Occupational Health, Safety & Wellness

Provide access to MSDS/SDS Master List Respond to incident site to assist

Refer to Page 45

#### **Environmental Services**

Obtain spill kit and assist with containing the spill Refer to Page 47

#### **Security**

Respond to incident site to assist
Provide communication to the Incident Command Centre
Refer to Page 15

# **Upon Hearing a Code Brown Announcement**

#### All Staff

Await instructions overhead

Do NOT approach the area unless you are directly involved in the response

Refer to Page 11

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June 2016

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#### 1.0 General Overview

#### 1.1. Plan to be Used in Case of a Hazardous Spill

A hazardous spill is defined as the escape from containment of any substance, which by its nature presents a threat to life or safety of the person or the environment through contact, absorption, inhalation or ingestion or a secondary threat of fire or explosion.

Only spills considered major, or unknown, will be announced overhead.

Anyone working with chemical, radioactive or biological materials must take all precautions necessary to prevent/reduce the risk of a spill.

#### 1.2. Authority to Declare

Anyone that is aware of a **major chemical** or **biological** or **unknown spill** is authorized to activate a Code Brown. The fire alarm will be activated to shut down the ventilation systems.

#### 1.3. Definitions

#### 1.3.1. Minor Spill

- Hazardous chemical or biological spill, which is physically less than 4 litres
- Radiological spill of any physical size, which displays a radioactivity level less than 5 times the annual limit on intake (5 ALI)
- Easily contained
- Minimal staff/equipment required for isolation and clean up
- Evacuation unlikely or very limited

#### 1.3.2. Major Spill

- Hazardous chemical or biological spill, which is physically equal to or greater than 4 litres
- Radiological spill of any physical size, which displays a radioactivity level greater than 5 times the annual limit on intake (5 ALI)
- Genuine threat to staff or environment by virtue of:
  - Airborne contamination
  - o Fire
  - Explosion
  - Highly infectious agents
- Greater number of staff/equipment required for isolation and clean up
- Limited evacuation likely; extended evacuation possible
- Probable Hazardous Materials (HAZMAT) team or Fire Department involvement

#### 1.3.3. Unknown Spill

- When it is unknown what the substance is, or how harmful it is to people in the area, the spill will be considered a major spill until proven otherwise
- When the spill substance is unknown, refer to "Response & Recovery All Staff
   2.1 Upon Discovery of a Chemical Spill" for response

NOTE: WHEN IN DOUBT, A SPILL SHOULD BE CONSIDERED MAJOR

#### **Hazardous Chemical**

Any substance, having properties which are corrosive, flammable, explosive, oxidizing, reactive, or poisonous, or any substance containing chemical material.

Chemical Classifications

- Class A Compressed Gas
- Class B Combustible and Flammable Material
- Class C Oxidizing Material
- Class D Div. 1, 2, 3 Poisonous and Infectious
- Class E Corrosive Material
- Class F Dangerously Reactive Material

#### Radiological

Any substance that is itself a radioisotope, or which contains radioisotopes, is considered radioactive. (i.e. bodily fluids from a person containing unsealed sources of radiological material)

#### Biological

Biological agents are substances containing living organisms (i.e. bacteria or viruses) that have the potential to cause infection/disease some of which could have person-to-person spread. Biological agents are classified in three categories in accordance to their risk factor:

#### Category A

High-priority agents include organisms that pose a risk to national security because they:

- can be easily disseminated or transmitted from person to person;
- result in high mortality rates and have the potential for major public health impact;
- might cause public panic and social disruption; and
- require special action for public health preparedness

#### Examples:

Anthrax

Botulism

Smallpox

#### Category B

Second highest priority agents include those that:

- are moderately easy to disseminate;
- · result in moderate morbidity rates and low mortality rates; and
- require specific enhancements of Health Canada diagnostic capacity and enhanced disease surveillance

#### Examples:

Brucellosis

Food safety Threats (e.g., Salmonella, Escherichia Coli)

#### Category C

Third highest priority agents include emerging pathogens that could be engineered for mass dissemination in the future because of:

- availability;
- · ease of production and dissemination; and
- potential for high morbidity and mortality rates and major health impact

#### Examples:

Emerging infectious diseases such as Nipah virus and Hantavirus

#### 1.4. Support Equipment and Supplies

#### Material Safety Data Sheets (MSDS) / Safety Data Sheets (SDS)

When responding to a spill, staff should check departmental Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for possible hazardous substances located in the area.

The MSDS/SDS Master list is maintained by Materiels Management. Copies are located in:

- Intranet
- Occupational Health, Safety & Wellness

#### **Hazardous Spill Containment Kit**

Hazardous spill containment kits are located in:

- Environmental Services Department ext. 7250
- Connell 0 hallway
- Receiving ext. 4024

#### Mercury Spill Kit

A kit specific to dealing with mercury spills is located in the Maintenance department.



#### **Spill Cleanup**

It is the responsibility of the end-user in consultation with the Operations Officer, to arrange proper cleanup of any and all hazardous spills in accordance with departmental protocol or MSDS/SDS procedures. Environmental Services will not clean up any spill; they will only act in a supportive role either by assisting in containing a spill or cleaning the area after the initial clean up process has been completed.

#### 1.5. Common Sources of Hazardous Spills

#### 1.5.1. Mercury (AKA: Quicksilver, Hydragyrum)

Mercury, (elemental abbreviation Hg) is one of the few metals which are in a liquid phase at room temperature.

There are several medical devices that the hospital has which may contain mercury. E.g. thermometers, sphygmomanometer gauges, fluorescent light bulbs (including compact and projector) etc. Typically, these items contain very small amounts of mercury, and would not require the use of

Code Brown if they were to spill. However, specific steps need to be taken in order to isolate, clean and dispose of mercury safely.

The main effects of mercury exposure to humans are understood to be neurological, renal (kidney), cardiovascular and immunological impacts. Chronic exposure to mercury can cause damage to the brain, spinal cord, kidneys, liver and developing fetus. Exposure to mercury while in the womb can lead to neurodevelopmental problems in children. Mercury can impair the ability to feel, see, move and taste, and can cause numbness and tunnel vision. Long-term exposure can lead to progressively worse symptoms and ultimately personality changes, stupor, and in extreme cases, coma or death. Recent findings have described adverse cardiovascular and immune system effects at very low levels. <sup>1</sup>

In the unlikely event of a mercury spill of greater than 2 tbsp, a Code Brown should be activated. When calling Switchboard for a mercury spill, state that the Fire Department does not need to be notified. An external company may be contacted by the Incident Command Centre to arrange for mercury cleanup and disposal.

To prevent mercury spills, the facility has endeavored to replace mercury containing devices with non-mercury containing equipment whenever possible. The fluorescent bulbs in use have lowest amount of mercury possible but still present a hazard.

Clean-up of the spill should be done with the mercury spill kit. A normal vacuum should NEVER be used to clean up mercury as it can disperse harmful mercury vapours

Proper PPE (Personal Protective Equipment) should always be worn when mercury is involved. This should include nitrile gloves, eye protection, closed toe footwear, and a gown. Respiratory protection is not routinely required since the clean up procedures involve the use of a vapour suppressing powder and amalgamation powder, both of which reduce aerosolizing of mercury vapours.

#### 1.5.2. Raw Sewage Spill

Any raw sewage spill represents a biological hazard. In sufficient quantities (greater than 4 litres) raw sewage spills represent a Code Brown. However, any raw sewage spill, regardless of the quantity, will be dealt with internally and does not require the notification of the Fire Department. When calling Switchboard for a raw sewage spill Code Brown, state that the Fire Department does not need to be notified.

To prevent raw sewage spills care should always be taken to ensure that materials not compatible with the hospital sewage system are disposed of properly.

#### 1.5.3. Cytotoxic Drugs (AKA: Antineoplastics)

The term cytotoxic drug refers to a drug or enzyme that is administered to plants, animals or humans for the specific purpose of altering the metabolic process or possessing a specific destructive action on cells.

Standard precautions and cytotoxic precautions are used when handling blood, emesis, or excreta of a patient who has received hazardous drugs within 7 days. When calling Switchboard for a cytotoxic drug spill, state that the Fire Department does not need to be notified.

Risks from exposure are based on the inherent toxicities of the drugs. The risks include:

- Chromosomal changes (genotoxicty).
- Fertility impairment (teratogenicity).
- Cancer (carcinogenicity).
- Organ toxicity thus causing organ damage.
- Acute symptoms from accidental exposure in poorly ventilated areas such as headache, nausea and dizziness.

<sup>&</sup>lt;sup>1</sup> Environment Canada – Mercury and the Environment, 2004

Types of cytotoxic drugs include:

- Chemotherapy (e.g. chlorambucil, cyclophosphamide, cisplatin, dacarbazine, doxorubicin).
- Biotherapy (e.g. interferons).
- Antiviral agents (e.g. ganciclovir).
- Immunosuppressive agents.

NOTE: All investigational agents should be regarded as potentially hazardous.

Safe practices are key when cytotoxic drugs are being utilized:

- HEPA-filtered Biological safety cabinet pharmacies (externally exhausted, if possible) to store the drugs.
- Personal Protective Equipment
- Double glove
- Chemoprotectant gown
- Face mask (N95 mask to be worn when cleaning up spills)
- Face shield or goggles (worn when there is a possibility of splashing)

# 1.6. Incident Command Centre Weekdays 0800 – 1600 hours

Upon receiving notice of a major hazardous spill Protection Services will immediately establish an Incident Command Centre<sup>2</sup> within the Security Office on Dietary 1. The Director of Protection Services/Delegate will assume command and coordinate the response activities.

The person acting as the Incident Commander (e.g., Director, Protection Services/Delegate) must be prepared to transfer command to a higher authority (HAZMAT Team, Fire Department, etc.), or apply unified command<sup>3</sup>.

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<sup>&</sup>lt;sup>2</sup> "Incident Command Centre" is a centrally located space available to coordinate and manage resources.

<sup>&</sup>quot;Incident Command" reports to the Hospital Emergency Operations Centre (if active).

<sup>&</sup>lt;sup>3</sup> "Unified Command" is a team effort which allows all departments/agencies with responsibility for the incident, to jointly provide management direction to an incident through a common set of incident objectives and strategies established at the command level.

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# 2.0 Response & Recovery – All Staff

# **Response**

# 2.1. Upon Occurrence or Discovery of a Chemical Spill

If t	the spill is minor (i.e. less than 4 litres) - A CODE BROWN IS NOT NECESSARY:  Look for injured persons in the affected area and remove them to fresh air if possible to
	do so without becoming a casualty, activate a <b>Code 99 (Medical Emergency)</b> if required
	Isolate and contain the spill by damming and closing doors
	Assess the severity and size of the spill to determine whether it is minor or major
	Clean up the spill, according to departmental protocol or MSDS/SDS instructions
	If assistance is required to contain the spill or to mop the area after the initial clean up notify:
	Environmental Services (2309 or Vocera) to obtain the spill kit for containment
	Ensure that MSDS/SDS instructions for decontamination and disposal are followed
	If chemical has been spilled on a person's skin:
	☐ Move the person to the nearest shower, they should remove all clothing and shower for 15 minutes with soap and water.
	☐ Change into uncontaminated clothing and report to the Emergency Department immediately
	If chemical has been spilled in a person's eyes, or has been ingested or inhaled, review
	first aid measures (i.e. copious amounts of water to the eyes for a minimum of 15
	minutes, etc.) and have that person report to the Emergency Department immediately
	Contact Occupational Health, Safety & Wellness/Delegate
If t	the spill is major (i.e. greater than 4 litres), or, the chemical is unknown: Initiate a limited evacuation of the immediately threatened area
	Pull the nearest fire alarm pull station
	Notify Switchboard (4444) providing:
	$\hfill\square$ Nature of the emergency (e.g. We have had a major chemical spill and have activated
	the fire alarm system).
	☐ Your name and title
	□ Location
	□ Name of chemical spilled if known
	Move to a safe place near the area and await the arrival of Security and the Fire
	Department and provide them with MSDS/SDS information on the chemical spilled
	Be prepared to provide detailed information to the Incident Command Centre
	Ensure the MSDS/SDS instructions for decontamination and disposal are followed

If chen	nical has been spilled on a person's skin:
	ve the person to the nearest shower, they should remove all clothing and shower 15 minutes with soap and water.
	ange into uncontaminated clothing and report to the Emergency Department
	nediately
	nical has been spilled in a person's eyes, or has been ingested or inhaled, review
	d measures (i.e. copious amounts of water to the eyes for a minimum of 15
minute	es, etc.) and have that person report to the Emergency Department immediately
Contac	ct Occupational Health, Safety & Wellness/Delegate
	1.1. Procedure If You Discover a Mercury Spill (Less Than 2 Tbsp) onday – Friday during regular hours
	Turn off fans and room air conditioners
	Close the door to the affected area and restrict access to required staff only
	Environmental Service (2309 or Vocera) and request mercury spill kit
	Immediately notify the Maintenance (4030) of the mercury spill and request their assistance in:
	Controlling and cleaning up the spill
	Shutting down HVAC to the area of the spill
	Notify Security (4142)
	Notify Area Program Manager/Delegate
	Notify Occupational Health, Safety, & Wellness (4389)
	If the mercury beads have made contact with the employee's skin or eyes,
	immediately implement first aid measures (i.e. copious amounts of water to the
	eyes for a minimum of 15 minutes). Should treatment beyond first aid only and/or
	consultation be required, the exposed employee should report to the Occupational
	Health, Safety& Wellness department during normal business hours or the
	Emergency Department after hours
Aft	er-hours, Weekends & Statutory Holidays
	Turn off fans and room air conditioners
	Immediately notify the Maintenance On-Call of the mercury spill and request their assistance in:
	☐ Controlling and cleaning up the spill
	☐ Shutting down HVAC to the area of the spill
	Notify Security (4142)
	Close the door to the affected area and restrict access to required staff only
	Notify Administrative Coordinator (7021)

Ш	Notify Occupational Health, Safety & Wellness Manager 1630-0700 (via Switchboard)
	•
	immediately implement first aid measures (i.e. copious amounts of water to the eyes for a minimum of 15 minutes). Should treatment beyond first aid only and/or consultation be required, the exposed employee should report to the Occupational Health, Safety & Wellness department during normal business hours or the
	Emergency Department after hours
2.	1.2. Procedure If You Discover a Mercury Spill (Greater Than 2 Tbsp)
	Wash hands and other exposed areas with soap and water immediately
	If clothing is contaminated, remove clothing as soon as possible and place in a plastic bag; shower with soap and water
П	Notify Switchboard @ <b>4444</b> providing:
	□ Name and title
	□ Location
	☐ Give details regarding mercury spill (state that the Fire Department does
	NOT need to be notified)
	Turn off fans and room air conditioners
	List other people who have been in the immediate area for follow up if required
	Notify:
	☐ Security (4142), if not already aware
	☐ Affected Area Manager/Nursing Supervisor/Delegate
	☐ Occupational Health, Safety & Wellness
2.	1.3. Procedure If You Discover a Cytotoxic Drug Spill (Code Brown)
	Initiate a limited evacuation of the contaminated area of any unnecessary, uncontaminated staff
	Isolate and contain the spill by damming and closing doors
	Notify Switchboard (4444) providing;
	☐ Name and title
	☐ Location
	☐ Nature of emergency
	□ Name of cytotoxic drug spilled, if known (state that the Fire Department
_	does NOT need to be notified)
	Contact Occupational Health, Safety & Wellness/Delegate
	Notify Environmental Services ( <b>7250</b> ) regarding the location and extent of the spill
Ш	Be prepared to provide detailed information to the Incident Command Centre

Ensure the instructions for decontamination and disposal are followed
If drug has been spilled on a staff person's skin or in eyes, or has been ingested or
inhaled, review first aid measures (i.e. copious amounts of water to the eyes for a
minimum of 15 minutes, etc.) and have that person immediately report to the
Occupational Health, Safety & Wellness Department or the KGH Emergency
Department, after hours
Change clothing/linens as appropriate (follow safe handling of linen guidelines)
Obtain a hazardous drug spill kit. Replacement kits are available from Stores
Instructions for use of the spill kit are in the Parental I.V. Therapy Manual under
"Safe Handling Procedure For Hazardous (Cytotoxic) Drug Spills"
Don Personal Protective Equipment (PPE) for managing spills e.g. gloves,
disposable gown, face shield, shoe covers and N95 mask
If spill is on carpet, sprinkle absorbent powder evenly over the spill. Solidified
material should be removed with scoop & scraper
Absorb spill by placing down chemo prep mats (2) plastic side up. Liner acts as a
vapour barrier and absorbent fibers of the mat soak up liquid. Using spill kit brush
and dustpan clean up glass fragments and place into Hazardous (Cytotoxic) waste
container
Clean up the spill:
Hard Surfaces:
□ Place contaminated mats in yellow Chemo Waste Bag
☐ Use disposable wiper towels to clean the spill area 3 times with detergent
solution followed by clean water. Clean from least to the most contaminated
areas
$\hfill \Box$ Use fresh detergent solution followed by clean water to wash items located in
the spill areas (i.e. pump) and repeat washing
Carpeted Surfaces
☐ Clean up spill as per above procedures AND
□ Notify the Maintenance (4030) to organize replacement of carpet tiles affected
by the spill
Place contaminated disposable items into Hazardous (Cytotoxic) waste container
Place all contaminated non-disposable items into double laundry bag or double
clear bags and label with Hazardous (Cytotoxic) stickers or mark these bags as
 Hazardous (Cytotoxic)
Notify Central Processing (4020) and Portering (4240) for collection of non-
disposable items (e.g. pumps)

#### 2.2. Upon the Occurrence or Discovery of a Biological Spill

If the spill is minor (i.e. less than 4 litres) - A CODE BROWN IS NOT NECESSARY:

All patient care staff are asked to report back to their units, all ancillary staff (Environmental Services, Portering, etc.) are to report to their departments. ☐ Clean up the spill, according to departmental protocol or **MSDS/SDS** instructions, wearing the appropriate personal protective equipment ☐ If assistance is required to contain the spill or to mop the area after the initial clean up notify: ☐ Environmental Service (2309 or Vocera) to obtain the spill kit for containment ☐ Occupational Health, Safety & Wellness ☐ Ensure that **MSDS/SDS** instructions for decontamination and disposal are followed ☐ If a biological agent has been spilled on a person's skin: ☐ Move the person to the nearest shower, they should remove all clothing and shower for 15 minutes with soap and water ☐ Change into uncontaminated clothing and report to the Emergency Department immediately ☐ If a biological agent has been spilled in a person's eyes, or has been ingested or inhaled, review first aid measures (i.e. copious amounts of water to the eyes for a minimum of 15 minutes, etc.) and have that person report to the Emergency Department immediately ☐ Contact Occupational Health, Safety & Wellness/Delegate 2.2.1. For raw sewage spills/undetermined fluid leaks less than 4 litres: ☐ Notify: ☐ Security Operations Centre at **(4142)** providing: ☐ Name and position □ Location ☐ Give details regarding sewage spill or undetermined fluid leak ☐ If assistance is required to contain the spill ask Environmental Service (2309 or **Vocera)** to obtain the spill kit for containment □ 0800-1600 hours notify Affected Area Manager/Delegate<sup>4</sup> ☐ 1600-0800 hours notify Administrative Coordinator (7021) ☐ If the sewage spill has been spilled on a person's skin or in eyes, or has been ingested or inhaled, implement first aid measures as necessary: ☐ Wash hands and other exposed areas with soap and water immediately ☐ If clothing is contaminated, remove clothing as soon as possible and place in a plastic bag; shower with soap and water

Response & Recovery - All Staff

<sup>&</sup>lt;sup>4</sup> Delegate is the next level of appointed authority; in this case, the Charge Nurse.

☐ Flush eyes with copious amounts of water for a minimum of 15 minutes
☐ Have the affected person report to the Occupational Health, Safety & Wellness
department during normal business hours or the Emergency department after
hours
2.2.2. For Raw Sewage Spills Greater Than 4 Litres (Code Brown):  ☐ Notify Switchboard (4444) providing:
□ Name and position
☐ Location
□ Nature of emergency (state that it is a raw sewage spill and that the Fire
Department does <b>NOT</b> need to be notified)
☐ Turn off fans and room air conditioners
☐ Discontinue treatment and initiate a limited evacuation of the immediately threatened area
☐ For dialysis patients discuss treatment options with Charge Nurse and Nephrologist
☐ Take direction from Infection Control representatives regarding continuation of duties
☐ Wash hands and other exposed areas with soap and water immediately
$\ \square$ If clothing is contaminated, put on N95 mask and remove clothing as soon as possible
and place in a plastic bag; shower with soap and water; the clothing may be taken
away for testing to identify the substance and biological agents they were exposed to
☐ In the case of full body contamination, report to the Emergency Department for
showering and decontamination
□ Notify:
☐ Security Operations Centre (4142)
☐ Affected Area Manager/Delegate
$\hfill \square$ List other people who have been in the immediate area for follow up if required
If the spill is major (i.e. greater than 4 litres), or, the biological agent is unknown:
☐ Infection Control and Occupational Health must be notified immediately by medical staff,
nursing staff or the health unit if there is any suspicion or indication of exposure of staff o
patients to an infectious agent due to a bio-terrorist act
·
In the event that you are aware of a non-controlled biological agent, whether by spill
or attack (i.e. suspicious powder found in mail):
☐ If the substance is large in quantity or unable to be contained (e.g. airborne dusts)
evacuate the area immediately
□ Notify Switchboard @ <b>4444</b> providing:
☐ Name and title
□ Location

	☐ Nature of emergency
	Turn off fans and room air conditioners
	Leave the room, close the door and keep others from entering the room
	Wash hands and other exposed areas with soap and water immediately
	If clothing is contaminated, put on an N95 class mask and remove clothing as soon as
	possible and place in a plastic bag; shower with soap and water; the clothing may be
	taken away for testing to identify the substance and biological agents
	☐ In the case of full body contamination, move the person to the nearest shower, they
	should remove all clothing and shower for 15 minutes with soap and water
	☐ Change into uncontaminated clothing and report to the Emergency Department
	immediately
	List other people who have been in the immediate area for follow up if required
2.3	B. Upon Occurrence or Discovery of a Radiological Spill
	Look for injured persons in the affected area and remove them to fresh air if possible to
	do so without becoming a casualty, activate a Code 99 (Medical Emergency) if required
	Isolate and contain the spill by damming and closing doors
	Initiate a limited evacuation of the contaminated area of unnecessary, uncontaminated
	staff
	If qualified, measure the level of radioactivity in the spill
	the spill is minor (any size but displays less than 5 ALI) - A CODE BROWN IS NOT
	Notify:
ш	
	<ul> <li>□ Environmental Service (2309 or Vocera) to obtain the spill kit for containment</li> <li>□ Radiation Protection Officer</li> </ul>
	☐ Ensure that decontamination procedures are followed
	Ensure that decontamination procedures are followed
lf t	he spill is major (greater than 5 ALI):
	Notify Switchboard (4444) providing:
	□ Name and title
	□ Location
	□ Nature of emergency
	Move to a safe place near the area and await the arrival of the Radiation Protection
	Officer
lf ı	not qualified to measure the level of radioactivity in the spill:
	□ Name and title

	□ Location
	□ Nature of emergency
	During working hours (Monday – Friday 0800 – 1600), the Radiation Safety Officer
	(4536) or (6819)
	After working hours, the Nuclear Medicine Technologist (613-536-7583)
	Move to a safe place near the area and await the arrival of Security and the Radiation Safety Officer or Nuclear Medicine Technologist
	If radioactive material has been spilled on a person's skin or in eyes, or has been
	ingested or inhaled, review first aid measures (i.e. copious amounts of water to the eyes for a minimum of 15 minutes, etc.) and have that person report to the Emergency Department immediately
2.4	I. Procedure If You Hear a Code Brown Announced Overhead
	2.4.1. All Hospital Staff in the Affected Area  ☐ Cease all unnecessary activity
	☐ Move self and other staff to a safe location
	2.4.2. All Hospital Staff Not In the Affected Area  □ Do not call Switchboard unless it is urgent
	☐ <b>Do not approach the area</b> , unless you are involved with the response
	☐ Continue with normal duties unless directed otherwise
Re	<u>ecovery</u>
2.5	5. Upon Notification that the Crisis Has Concluded
	he spill was minor:
	If Security was contacted be prepared to provide a statement to the attending Security  Officer
	Ensure any required documentation is completed and delivered to Occupational Health
	and Wellness
lf t	he spill was major:
	If you are the initiator of the Code Brown be prepared to provide a statement to the attending Security Officer
	Ensure any required documentation is completed and delivered to Occupational Health,
	Safety & Wellness
П	Ensure a Safe Report is completed on the incident

Should an employee have an unprotected exposure to mercury beads, they should
immediately flush the area with copious amounts of water, report this to their
Supervisor/Manager, and complete an Employee Incident Report. Should further
treatment and/or consultation be required, visit the Occupational Health, Safety &
Wellness department during business hours or the Emergency Department after hours.
Be prepared to participate in a debriefing session, if required
Upon hearing the "All Clear" resume normal duties

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# 3.0 Response & Recovery – Switchboard

# Response

3.1	. Upon Notification of an <u>Unknown</u> Spill
	Announce overhead three times "CODE BROWN (location)" Refer any media inquiries to the Strategy Management + Communications office Obtain the location and contact number for the Incident Command Centre from Security/Affected Area Manager/Delegate as soon as possible
	tify:
	Fire Department (911) (When speaking to Fire Department do not use the term Code Brown. Instead, state "unknown hazardous spill")  Security Operations Centre (4142)  Affected Area Manager/Delegate  Administration  Occupational Health, Safety & Wellness
<b>M</b> c	onday – Friday (After normal business hours), Weekends & Holidays Fire Department (911) (When speaking to Fire Department do not use the term Code Brown. Instead, state "unknown hazardous spill") Security Operations Centre (4142) Environmental Services 7250 Occupation Health & Wellness On-Call Person 1700 – 1900 Duty Administrator 7021 1900 – 0700 Administrative Coordinator at 7021
3.2	. Upon Notification of a Major <u>Chemical</u> Spill
	Announce overhead three times "CODE BROWN (location)" Refer any media inquiries to the Strategy Management + Communications office Obtain the location and contact number for the Incident Command Centre from Security/Affected Area Manager/Delegate as soon as possible
	tify: (Fire Department notification is not necessary for mercury spills or cytotoxic
	onday to Friday (During normal business hours 0800 – 1600)
	Fire Department <b>(911)</b> (When speaking to Fire Department do not use the term Code Brown. Instead, state "Chemical Spill")

	Security Operations Centre (4142)		
	Affected Area Manager/Delegate		
	Manager of Environmental Services 2309		
	Manager of Occupational Health, Safety and Wellness 4389		
	Infection Control 4015		
	Risk Management 4496		
	President & CEO 2341		
Ma	onday – Friday (After normal business hours), Weekends & Holidays		
	Fire Department (911) (When speaking to Fire Department do not use the term Code		
_	Brown. Instead, state "Chemical Spill")		
П	Security Operations Centre (4142)		
	Environmental Services <b>7250</b>		
	Occupation Health & Wellness On-Call Person		
	1700 – 1900 Duty Administrator		
3.3	3. Upon Notification of a Major <u>Biological</u> Spill		
	Announce overhead three times "CODE BROWN (location)"		
	Refer any media inquiries to the Strategy Management + Communications office		
	Obtain the location and contact number for the Incident Command Centre from		
	Security/Affected Area Manager/Delegate as soon as possible		
No	otify:		
Mo	onday to Friday (During normal business hours 0800 – 1600)		
	Fire Department (911) (When speaking to Fire Department do not use the term Code		
	Brown. Instead, state "Biological Spill")		
	Security Operations Centre (4142)		
	Affected Area Manager/Delegate		
	Occupational Health, Safety & Wellness 4389		
	Manager of Environmental Services 2309		
	Infection Control 4015		
	Risk Management 4496		
	President & CEO 2341		
	On-call Infectious Disease Physician		
Mo	Monday to Friday (After normal business hours), Weekends and Holidays		
	Fire Department (911) (When speaking to Fire Department do not use the term Code		
	Brown. Instead, state "Biological Spill")		

	Security Operations Centre (4142)
	Environmental Services <b>7250</b>
	1700 – 1900 Duty Administrator
	1900 – 0700 Administrative Coordinator at 7021
	Occupation Health & Safety On-Call Person
	Infection Control Practitioner (through fan out list numbers)
	On-call Infectious Disease Physician
3.4	. Upon Notification of a Major <u>Radiological</u> Spill
	Announce overhead three times "CODE BROWN (location)"
	Refer any media inquiries to the Strategy Management + Communications office
	Obtain the location and contact number for the Incident Command Centre from
	Security/Affected Area Manager/Delegate as soon as possible
No	tify:
Mc	onday to Friday (During normal business hours 0800 – 1600)
	Fire Department (911) (When speaking to Fire Department do not use the term Code
	Brown. Instead, state "Radiological Spill")
	Security Operations Centre (4142)
	Radiation Safety Officer 4536 or 6819
	President & CEO 2341
	Affected Area Manager/Delegate
	Manager of Environmental Services 2309
	Manager of Occupational Health, Safety & Wellness 4389
	Infection Control 4015
	Risk Management 4496
Mc	onday to Friday (After normal business hours), Weekends and Holidays
	Fire Department (911) (When speaking to Fire Department do not use the term Code
	Brown. Instead, state "Radiological Spill")
	Security Operations Centre (4142)
	Nursing Supervisor/Delegate
	Nuclear Medicine Technologist On-Call at pager 613-536-7583
	Environmental Services 7250
	1700 – 1900 Duty Administrator
	1900 – 0700 Administrative Coordinator at 7021
	Occupation Health & Wellness On-Call Person

# Recovery

3.5. Upon Notification that the Crisis Has Conclud	3.5.	<b>Upon Notification</b>	that the Crisis	Has Concluded
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Announce over the public address system three times,	"CODE BROWN, ALL CLEAR"
Refer any media inquiries to the Strategy Management	+ Communication

# 4.0 Response & Recovery – Protection Services

# **Response**

Note: For Unknown Spills, Respond Using 4.2 Upon Receiving The Code Brown (Chemical Spill) Notification

4.1. Upon Notification of a <u>Minor Chemical</u> Spill (Including Minor Mercury or Cytotoxic Spills)

Security Operations Centre Operator Notify:		
	Shift Supervisor, if he/she is not already aware	
	curity Shift Supervisor	
	Proceed to the site and assist as necessary	
Ш	If entering the affected area, don appropriate Personal Protective Equipment (gown,	
	gloves, goggles, etc.	
	Notify the Security Operations Centre (4142) – be sure to say the spill is being	
	considered minor	
	Obtain:	
	☐ Name and title of person reporting the spill	
	☐ Name of substance believed to have been spilled	
	☐ Details of the cause of the spill	
	Notify the Security Operations Centre (4142) should the incident escalate	
	curity Officers Assist as required with the isolation and containment of the spill Obtain and deliver the Hazardous Spill Containment Kit/Mercury Spill Kit to the site, if not already delivered by Environmental Services	
4.2	. Upon Receiving the Code Brown (Chemical Spill) Notification	
	curity Operations Centre Operator tify:	
	Director of Protection Services/Delegate	
	Security Shift Supervisor	
	Environmental Services	
	During working hours:	
	☐ Maintenance	
	After working hours:	
_	☐ Maintenance On-Call (through the Switchboard)	
_		

	☐ Emergency Management On-Call person
Se	curity Shift Supervisor Ensure a Security Officer is on-route to meet the Fire Department at the designated entrance
	If entering the affected area, don appropriate Personal Protective Equipment (gown, gloves, goggles, etc.)
	Request an Officer to obtain and deliver the <b>Hazardous Spill Containment Kit</b> to the site, if not already delivered by Environmental Services
	Assist as required with the isolation and containment of the spill, under direction of the HAZMAT team and the Fire Department
WI	HEN IT IS SAFE TO DO SO
	Ensure an Officer has proceeded to the spill site and obtained:   Name and position of person reporting the spill
	<ul> <li>□ Name of substance believed to have been spilled</li> <li>□ Details of the cause of the spill</li> <li>Be prepared to transfer command to a higher authority (Director of Protection Services,</li> </ul>
	Duty Administrator, etc.)
	curity Officers
	Notify the Security Operations Centre (4142)  If entering the affected area, don appropriate Personal Protective Equipment (gown, gloves, goggles, etc.)
	Meet the Fire Department at the designated emergency services entrance  Obtain and deliver the Hazardous Spill Containment Kit/Mercury Spill Kit to the site, if necessary
	Await instruction from the Security Shift Supervisor
4.3	. Upon Receiving a Minor Biological Spill Notification
	curity Operations Centre Dispatch a Security Officer to proceed to the spill site Notify:  Security Shift Supervisor Environmental Services
Se	curity Shift Supervisor Ensure an Officer has proceeded to the spill site and obtained:  Name and position of person reporting the spill  Name of substance believed to have been spilled

	☐ Details of the cause of the spill
	If entering the affected area, don appropriate Personal Protective Equipment (gown, gloves, goggles, etc.)
	Request an Officer to obtain and deliver the <b>Hazardous Spill Containment Kit</b> to the
	site, if not already delivered by Environmental Services
	Assist as required with the isolation and containment of the spill
Se	curity Officer
	If entering the affected area, don appropriate Personal Protective Equipment (gown, gloves, goggles, etc.)
	Proceed to the site and obtain:
	☐ Name and position of person reporting the spill
	□ Name of substance believed to have been spilled
	☐ Details of the cause of the spill
	Assist as required with the isolation and containment of the spill
4.4	. Upon Receiving the Code Brown ( <u>Biological Spill</u> ) Notification
4.4	.1. For Raw Sewage Spills:
80	
Эe	curity Operations Centre
Se	☐ Dispatch a Security Officer to proceed to the spill site
Se	<ul><li>□ Dispatch a Security Officer to proceed to the spill site</li><li>□ Notify:</li></ul>
36	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> </ul>
<b>3</b> e	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> </ul>
Je	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> </ul>
Je	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> </ul>
Se	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> <li>□ After hours:</li> </ul>
3e	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> <li>□ After hours:</li> <li>□ On-call Maintenance person (through the Switchboard)</li> </ul>
Je	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> <li>□ After hours:</li> <li>□ On-call Maintenance person (through the Switchboard)</li> <li>□ On-call Infection Control Practitioner (through the Switchboard)</li> </ul>
Je	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> <li>□ After hours:</li> <li>□ On-call Maintenance person (through the Switchboard)</li> </ul>
	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> <li>□ After hours:</li> <li>□ On-call Maintenance person (through the Switchboard)</li> <li>□ On-call Infection Control Practitioner (through the Switchboard)</li> </ul>
	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> <li>□ After hours:</li> <li>□ On-call Maintenance person (through the Switchboard)</li> <li>□ On-call Infection Control Practitioner (through the Switchboard)</li> <li>□ Emergency Management On-Call person</li> </ul>
	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> <li>□ After hours:</li> <li>□ On-call Maintenance person (through the Switchboard)</li> <li>□ On-call Infection Control Practitioner (through the Switchboard)</li> <li>□ Emergency Management On-Call person</li> </ul> curity Shift Supervisor
	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> <li>□ After hours:</li> <li>□ On-call Maintenance person (through the Switchboard)</li> <li>□ On-call Infection Control Practitioner (through the Switchboard)</li> <li>□ Emergency Management On-Call person</li> </ul> curity Shift Supervisor <li>□ Ensure an Officer has proceeded to the spill site and obtained:</li>
	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> <li>□ After hours:</li> <li>□ On-call Maintenance person (through the Switchboard)</li> <li>□ On-call Infection Control Practitioner (through the Switchboard)</li> <li>□ Emergency Management On-Call person</li> <li>curity Shift Supervisor</li> <li>□ Ensure an Officer has proceeded to the spill site and obtained:</li> <li>□ Name and position of person reporting the spill</li> </ul>
	<ul> <li>□ Dispatch a Security Officer to proceed to the spill site</li> <li>□ Notify:</li> <li>□ Security Shift Supervisor</li> <li>□ During regular hours:</li> <li>□ Maintenance 4030</li> <li>□ Infection Control 4015</li> <li>□ After hours:</li> <li>□ On-call Maintenance person (through the Switchboard)</li> <li>□ On-call Infection Control Practitioner (through the Switchboard)</li> <li>□ Emergency Management On-Call person</li> <li>curity Shift Supervisor</li> <li>□ Ensure an Officer has proceeded to the spill site and obtained:</li> <li>□ Name and position of person reporting the spill</li> <li>□ Name of substance believed to have been spilled</li> </ul>

	Request an Officer to obtain and deliver the <b>Hazardous Spill Containment Kit</b> to the site, if not already delivered by Environmental Services
	Assist as required with the isolation and containment of the spill, under direction of Infection Control
	ity Officer If entering the affected area, don appropriate Personal Protective Equipment (gown, gloves, goggles, etc.) Proceed to the site and obtain:  ☐ Name and position of person reporting the spill ☐ Name of substance believed to have been spilled ☐ Details of the cause of the spill Assist as required with the isolation and containment of the spill, under direction of Infection Control
4.4.2.	For Any Other Major Biological Spill:
	ity Operations Centre  Dispatch a Security Officer to proceed to the spill site  Notify:  □ Security Shift Supervisor  □ During regular hours:  □ Maintenance 4030  □ Infection Control 4015  □ After hours:  □ Maintenance On-call (through the Switchboard)  □ Infection Control Practitioner On-call (through the Switchboard)  □ Emergency Management On-Call person
	ity Shift Supervisor Ensure an Officer is en route to meet the Fire Department at the designated entrance Ensure an Officer has proceeded to the spill site and obtained:  Name and position of person reporting the spill  Name of substance believed to have been spilled  Details of the cause of the spill  If entering the affected area, don appropriate Personal Protective Equipment (gown,
_	gloves, goggles, etc.)

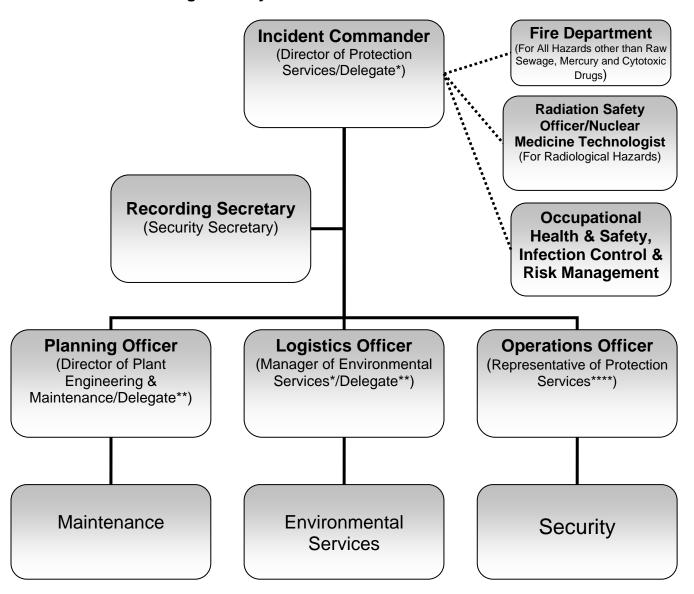
	☐ Request an Officer to obtain and deliver the <b>Hazardous Spill Containment Kit</b> to
	the site, if not already delivered by Environmental Services
	$\hfill \square$ Assist as required with the isolation and containment of the spill, under direction of
	Infection Control
0-	averity. Office and
Se	curity Officers  If entering the affected area, don appropriate Personal Protective Equipment (gown,
	gloves, goggles, etc.)
	☐ Proceed to the site and obtain:
	□ Name and position of person reporting the spill
	□ Name of substance believed to have been spilled
	☐ Details of the cause of the spill
	$\hfill \square$ Assist as required with the isolation and containment of the spill, under direction of
	Infection Control
4.5	5. Upon Receiving the Code Brown ( <u>Radiological Spill</u> ) Notification
Se	curity Operations Centre Operator
	otify:
	Director of Protection Services/Delegate
Ш	Security Shift Supervisor, if he/she is not already aware
Se	curity Shift Supervisor
	Ensure a Security Officer is on-route to meet the Fire Department at the designated
	entrance
	Direct the on-site Officer to assist with the set-up of the Incident Command Centre if you
	are not immediately available
	Assist the Affected Area Manager and/or Nursing Supervisor/Delegate with establishing
	the Incident Command Centre in the Security Office – Dietary 1 – refer to Incident
	Command Centre Section 5.4 Upon Receiving The Code Brown (Radiological
	Spill) Notification
	If entering the affected area, don appropriate Personal Protective Equipment (gown,
	gloves, goggles, etc.)
	Be prepared to transfer command to a higher authority (Director of Protection Services,
	Duty Administrator, etc.)
	Assist as required with the isolation and containment of the spill, under direction of the
	Radiation Protection Officer

Se	curity Officer
	Notify the Security Operations Centre (4142)
	If entering the affected area, don appropriate Personal Protective Equipment (gown,
	gloves, goggles, etc.)
	Cautiously, proceed to the site and obtain:
	□ Name and title of person reporting the spill
	□ Name of substance believed to have been spilled
	☐ Details of the cause of the spill
	Meet the Fire Department at the designated emergency services entrance
	Obtain and deliver the Hazardous Spill Containment Kit to the site, if not already
	delivered by Environmental Services
	Await instruction from the Security Shift Supervisor
Re	<u>ecovery</u>
4.6	6. Upon Notification that the Crisis Has Concluded
	curity Operations Centre Operator otify:
	Director of Protection Services/Delegate, if not already aware
	Security Shift Supervisor, if he/she is not already aware
Se	curity Shift Supervisor
	Ensure that a comprehensive electronic occurrence report is filed immediately
	Participate in a debriefing session
	curity Officers
	Await direction from the Incident Commander or Security Shift Supervisor
	Participate in a debriefing session

# 5.0 Response & Recovery – Incident Command Centre

#### Response

#### 5.1. Incident Management System



<sup>\*</sup> Delegate is the next level of appointed authority. In this case, it may be but is not limited to: the Manager of Emergency Management, Parking & Security Operations Centre; Manager of Security, Life Safety & Access Control, or Security Supervisor

<sup>\*\*</sup> Delegate is the next level of appointed authority. In this case, the Manager of Plant Engineering and Maintenance

<sup>\*\*\*</sup> Delegate is the next level of appointed authority. In this case, the Supervisor of Environmental Services
\*\*\*\* Representative of Protection Services may be but is not limited to: Director of Protection Services;
Manager of Emergency Management, Parking & Security Operations Centre; Manager of Security, Life Safety
& Access Control, or Security Supervisor

# 5.2. Upon Receiving the Code Brown (Major Chemical Spill) Notification

□ Establish the Incident Command Centre (Security office on Dietary 1)			
	Contact Switchboard and ensure they are aware of the contact number for the Incident		
	Command Centre		
	Appoint the following positions, only if the regular assigned persons are not available:		
Pla	anning		
Lo	Logistics Operations		
Op			
Re	cording Secretary		
	Receive status report/discuss initial action plan with required positions		
	Notify Switchboard <b>(0)</b> that the Incident Command Centre has been established and provide the contact number		
	Advise:		
	☐ Emergency Department of the spill and possibility of casualties		
	☐ Manager of Environmental Services/Delegate of the spill (via Switchboard)		
	☐ Director of Plant Engineering & Maintenance/Delegate (via Switchboard)		
	☐ Occupational Health, Safety & Wellness of the incident		
	☐ Infection Control		
	☐ Risk Management		
	Conduct regular business cycles with members of the Incident Command Centre		
	Prepare to provide a situational report to the CEO/Delegate		
	Be prepared to transfer command to a higher authority (e.g., HAZMAT Team/Fire		
	Department/CEO), or initiate unified command		
П	Notify Risk Management of the incident		
	☐ If the incident is expected to cost more than \$5000 for clean-up and repair:		
	☐ Ensure a SAFE Report is submitted online		
	☐ Ensure required information for insurance purposes is gathered		
	Keep the President & CEO/Delegate informed, as required		
	Liaise with Duty Administrator and assess the need to activate the Corporate		
_	Emergency Operations Center (EOC) and call back of Program Directors		
	Notify Security Operations Centre to call Corporate EOC members if required, and have		
	them report to the EOC at Watkins 2 Executive Committee room		

	Authorize staff fan-out lists, as required, in consultation with Program Directors/Managers	
	Ensure the EOC is appropriately informed of any identified risk issues	
	Brief Program Directors on the status of the incident	
	When the EOC is activated assume role of Emergency Management/Liaison Officer and	
	delegate role of Incident Commander	
Pla	anning – Director of Plant Engineering & Maintenance \ Delegate	
	Report to the Incident Command Centre (Dietary 1 Security Office)	
	Oversee Maintenance response to the spill	
	Initiate the recall of off-duty Maintenance staff, as required	
	Ensure the continuation of Maintenance functions in the remainder of the facility	
	Consider implications of the spill on the function of mechanical and plant engineering equipment	
	Contact Strategy Management + Communications to provide information about the	
Ш	incident	
Logistics Officer – Manager of Environmental Services \ Delegate		
	Report to the Incident Command Centre after initial assessment of the spill	
	Oversee the Environmental Services response to the spill	
	Ensure an Environmental Services Assistants are responding to assist with containment	
	and clean-up of the spill	
	Ensure the continuation of Environmental Services functions in the remainder of the facility	
	Contact contracted HAZMAT Team (Waste Management Services 1 800-267-7874) to	
	be prepared to respond	
	Oversee the Environmental Services response under direction of Infection Control and assist, as required	
	Initiate the recall of off-duty Environmental Services staff, as required	
Op	Derations Officer – Representative of Protection Services  Oversee the Security response under direction of the HAZMAT team and the Fire	
	Department and assist, as required	
	Ensure the hazardous spill kit has been sent to the incident site	
Re	ecording Secretary	
	Document all action within the Incident Command Centre	
	Prepare for the termination of the emergency and any debriefing requirements (i.e.	
	paper, pens, location, etc.)	

# 5.3. Upon Receiving the Code Brown (Major Biological Spill) Notification

Incident Commander – Director of Protection Services/Delegate  ☐ Establish the Incident Command Centre (Security office on Dietary 1)		
	Contact Switchboard and ensure they are aware of the contact number for the Incident	
	Command Centre	
	Appoint the following positions, only if the regular assigned persons are not available:	
Pla	anning	
Lo	ogistics	
Oþ	perations	
Re	ecording Secretary	
	<ul> <li>□ Emergency Department of the spill and possibility of casualties</li> <li>□ Manager of Environmental Services/Delegate of the spill (via Switchboard)</li> <li>□ Director of Plant Engineering &amp; Maintenance/Delegate (via Switchboard)</li> <li>□ Occupational Health, Safety &amp; Wellness of the incident</li> <li>□ Infection Control</li> <li>□ Risk Management</li> </ul>	
	Oversee Maintenance response to the spill Initiate the recall of off-duty Maintenance staff, as required Ensure the continuation of Maintenance functions in the remainder of the facility Consider implications of the spill on the function of mechanical and plant engineering equipment Contact Strategy Management + Communications to provide information about the incident	

Logistics Officer – Manager of Environmental Services  ☐ Oversee the Environmental Services response to the spill	
☐ Ensure an Environmental Services Assistants are responding to assist with containme	nt
and clean-up of the spill	IL
☐ Ensure the continuation of Environmental Services functions in the remainder of the	
facility  Contact contracted HAZMAT contractor (Waste Management Services 1 900 267)	
☐ Contact contracted HAZMAT contractor (Waste Management Services 1 800-267-	
7874) to be prepared to respond	
☐ Initiate the recall of off-duty Environmental Services staff, as required	
☐ Ensure the hazardous spill kit has been sent to the incident site	
Oversee the Environmental Services response under direction of the Radiation Safety	
Officer or Nuclear Medicine Technologist and assist, as required	
Operations Officer – Representative of Protection Services	
☐ Oversee the Security response under direction of the Incident Command and Infection	
Control and assist, as required	
$\ \square$ Ensure the hazardous spill kit has been sent to the incident site	
Recording Secretary	
□ Document all action within the Incident Command Centre	
☐ Prepare for the termination of the emergency and any debriefing requirements (i.e.	
paper, pens, location, etc.)	
5.4. Upon Receiving the Code Brown (Major Radioactive Spill) Notification	
5.4. Opon Receiving the code Brown ( <u>major Radioactive Opin</u> ) Notification	
Incident Commander – Director of Protection Services/Delegate	
☐ Establish the Incident Command Centre (Security office on Dietary 1)	
☐ Contact Switchboard and ensure they are aware of the contact number for the Incident	
Command Centre	
☐ Appoint the following positions, only if the regular assigned persons are not available:	
Planning	
Logistics	
Operations	
Operations	
Recording Secretary	

Ad	dvise:
	□ Emergency Department of the spill and possibility of casualties
	☐ Manager of Environmental Services/Delegate of the spill (via Switchboard)
	☐ Director of Plant Engineering & Maintenance/Delegate (via Switchboard)
	□ Occupational Health, Safety & Wellness of the incident
	☐ Infection Control
	☐ Risk Management
	Advise Radiation Safety Officer/Nuclear Safety Technologist/Delegate of the incident, if
	not already aware
	Liaise with Duty Administrator and assess the need to activate the Corporate
	Emergency Operations Center (EOC) and call back of Program Directors
	Notify Security Operations Centre to call Corporate EOC members if required, and have
	them report to the EOC at Watkins 2 Executive Committee room
	Conduct regular business cycles with members of the Incident Command Centre
	Advise the Emergency Department of the spill and possibility of casualties
	Be prepared to transfer command to a higher authority (e.g., Radiation Safety
	Officer/CEO), or initiate unified command
	Keep the President & CEO/Delegate informed, as required
Pla	anning Office – Director of Plant Engineering & Maintenance
	Initiate the recall of off-duty Maintenance staff, as required
	Ensure the continuation of Maintenance functions in the remainder of the facility
	Consider implications of the spill on the function of mechanical and plant engineering
	equipment
	Contact Strategy Management + Communications to provide information about the
	incident
Lo	ogistics Officer – Manager of Environmental Services
	Oversee the Environmental Services response to the spill
	Ensure an Environmental Services Assistants are responding to assist with containment
	and clean-up of the spill
	Ensure the continuation of Environmental Services functions in the remainder of the
	facility
	Contact contracted HAZMAT contractor (Waste Management Services 1 800-267-
	<b>7874)</b> to be prepared to respond

Operations Officer – Representative of Protection Services  ☐ Oversee the Security response under direction of the Radiation Safety Officer or Nuclear Medicine Technologist and assist, as required
☐ Ensure the hazardous spill kit has been sent to the incident site
Recovery
5.5. Upon Notification That the Crisis Has Concluded
Incident Commander
☐ Consult with all involved departments on the decision to call an all clear
☐ When decided, instruct Switchboard to announce "Code Brown All Clear"
☐ Arrange and prepare for a debriefing session
☐ Attend debriefing with Hospital Emergency Operations Centre, if activated
☐ Resume normal duties
Planning Officer
☐ Ensure equipment used has been returned and in proper storage
☐ Attend the Incident Command Centre debriefing session
☐ Contact Strategy Management + Communications
☐ Resume normal duties
Logistics Officer
<ul> <li>Ensure any required documentation is completed and delivered to Occupation Health &amp;</li> <li>Safety</li> </ul>
□ Contact contracted HAZMAT contractor (Waste Management Services 1 800-267-7874)
☐ Attend the Incident Command Centre debriefing session
☐ Resume normal duties
Operations Officer
☐ Attend the Incident Command Centre debriefing session
☐ Resume normal duties
Recording Secretary

☐ Document recovery actions within the Incident Command Centre

### Response & Recovery – Affected Area Manager/Delegate<sup>5</sup> 6.0

	<u>Res</u>	ponse	
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6.1. Upon Notification of a Minor Spill
□ Provide direction as required with clean up of the spill in accordance with the
substance's material safety data sheet (if applicable)
☐ Ensure necessary documentation is completed and submitted to the appropriate
Government agencies, as required
6.2. Upon Receiving the Code Brown (Chemical Spill) Notification
<ul> <li>Report to and assume command of the area until arrival of Security / HAZMAT Team /</li> <li>Fire Department</li> </ul>
☐ Refer to All Staff Response: 2.1. Upon Occurrence or Discovery of a Chemical Spill
6.3. Upon Receiving the Code Brown (Biological Spill) Notification
□ Report to the area and assume command of the area until arrival of Infection Control
☐ Refer to All Staff Response: 2.2. Upon Occurrence or Discovery of a Biological Spill
6.4. Upon Receiving the Code Brown (Radioactive Spill) Notification
<ul> <li>Report to the area and assume command of the area until arrival of Radiation Safety</li> <li>Officer or Nuclear Medicine Technologist</li> </ul>
☐ Refer to All Staff Response: 2.3. Upon Occurrence or Discovery of a Radioactive Spill
Recovery
6.5. Upon Notification That the Crisis Has Concluded  ☐ Conduct a debriefing session with involved staff
☐ Ensure any required documentation is completed and delivered to Occupational Health
and Wellness
□ Resume normal duties

<sup>&</sup>lt;sup>5</sup> Delegate refers to the next level of appointed authority. In this case, the Administrative Coordinator. Response & Recovery – Affected Area 39 Manager/Delegate

# 7.0 Response & Recovery – President & CEO/Delegate<sup>6</sup>

<b>7.6</b> □	. Upon Receiving the Code Brown Notification Prepare to receive situational report / briefing from the Incident Commander
	If recommendation is to commence further evacuation consider the following:
	☐ Implementation of Hospital Emergency Operations Centre (See EOC Implementation Plan)
	☐ Implementation of Code Green (Evacuation)
	☐ Implementation of Crisis Communication Plan
Re	<u>covery</u>
<b>7.7</b>	. All Clear – Declaring Return to Normal Operations In consultation with the Incident Command Centre, HAZMAT Team, Fire Department, and / or other relevant staff, determine whether the crisis has concluded and authorize the Switchboard to announce the "All Clear".
	Implement a course of action to manage a major disruption of Hospital routine, if necessary
	Arrange for a debrief session between the Incident Command Centre and the Emergency Operations Centre, if established
	Arrange for a debrief session with involved staff

<sup>&</sup>lt;sup>6</sup> Delegate refers to the next level of appointed authority. In this case, the Duty Administrator. Response & Recovery – President & 41

# 8.0 Response & Recovery – Emergency Department

<ul><li>8.1. Upon Hearing Code Brown Announced Overhead</li><li>□ Prepare for the influx of patients</li></ul>	
☐ Prepare for the need to set up decontamination process	
<ul> <li>8.2. Activating Code Orange Decontamination Process</li> <li>□ The Emergency Department will be notified to activate the decontamination proceed either by an internal source (Infection Control, Security); or an external source, Emergency Services (Police, Fire, EMS) or KFL&amp;A Public Health.</li> <li>□ Upon notification for the need of the decontamination process, activate the approcess (Stage 2 or Stage 3)</li> </ul>	
Recovery	
<ul> <li>8.3. Upon Notification that the Crisis Has Concluded</li> <li>□ Ensure affected staff participate in a debriefing session</li> <li>□ Return to normal operations</li> </ul>	

# 9.0 Response & Recovery – Occupational Health, Safety & Wellness

<ul> <li>9.1. Upon Receiving the Code Brown Notification</li> <li>□ If requested, provide access to the MSDS/SDS master list</li> <li>□ Prepare to respond to the Code Brown site to assist in treatment of any affected staff</li> </ul>
<ul> <li>Once on site assume command of any staff persons requiring medical treatment and suggest course of action required</li> <li>Recovery</li> </ul>
9.2. Upon Notification That the Crisis Has Concluded  ☐ Resume normal duties
☐ Prepare to receive required documentation

# **10.0** Response & Recovery – Infection Control

.1. Upon Receiving the Code Brown (Biological Spill) Notification
Report to the area of the spill to ensure proper infection control procedures are in effect
Reference the Infection Control Manual section 3-70 (Biological Disasters/Events)
Determine if the decontamination process needs to be activated
No:
☐ Continue to monitor the area until cleaned
Yes:
□ Notify the emergency department to activate the decontamination process
2. Activating the Code Brown Decontamination Process
Notify KFL&A Public Health and Infectious Diseases of activation of the
decontamination process
Report to the emergency department and put on protective clothing
Following decontamination, Infection Control will follow-up with <b>stable</b> patients being
held in the isolation area waiting room
In consultation with KFL&A Public Health and/or Infectious Diseases, determine
whether patients are potentially infectious or incubating a serious disease where
person-to-person transmission is a concern
If they are not:
<ul> <li>□ Patient will be discharged (possibly under home quarantine) with follow-up by</li> <li>KFL&amp;A Public Health</li> </ul>
If they are:
☐ Patients who do not require admission for medical reasons but who require strict quarantine (determined by KFL&A Public Health) will need to be transported to quarantine facilities
<ul> <li>         □ A line listing of all patients, including their home address and phone number for the ensuing 3 weeks, will be completed for each patient by an Infection Control Practitioner prior to their discharge and the list will be given to KFL&amp;A Public Health     </li> </ul>
llowing decontamination, Infection Control will follow-up with <b>unstable</b> patients being ated in the isolation area treatment area
In consultation with KFL&A Public Health and/or Infectious Diseases, determine whether patients are potentially infectious or incubating a serious disease where person-to-person transmission is a concern

	Assess patients, who require admission for medical reasons, as to isolation requirements
	Notify the Incident Command Centre of any special room requirements
Re	covery
De	3. Upon Notification That the Crisis Has Concluded contamination process not activated:  Ensure spill area conforms to infection control policy
	Resume normal duties
De	contamination process activated:
	Nondisposable items will be gathered, placed in plastic containers, sealed and placed in biohazard bags. Arrange for cleaning and sterilization of these items after consultation with the Manager of Central Processing.
	The disinfectant to be used for decontamination of a biological spill is: PerCept (0.5% hydrogen peroxide) 1:16 dilution for 5 minutes
	Inspect the isolation room and equipment and authorize the staff in the area to resume normal duties
	Report to the Incident Command Centre for debriefing

# 11.0 Response & Recovery – Environmental Services

## Response

## 11.1. Upon Notification of a Minor Chemical or Biological Spill

Manager Environmental Services/Delegate <sup>7</sup> ☐ Send an Environmental Services Assistant to the area to arrange in cleaning the area after the spill has been initially cleaned
<ul> <li>Environmental Services Assistants</li> <li>□ Obtain spill kit and bring to Code Brown location</li> <li>□ Don appropriate personal protective equipment</li> <li>□ Assist, as required, with the cleaning of the area after the spill has been initially cleaned</li> </ul>
11.2. Upon Hearing Code Brown Announced Overhead
Manager Environmental Services/Delegate  ☐ Report to the area of the spill for initial assessment ☐ Ensure Environmental Services staff are assigned to the incident site ☐ Report to the Incident Command Centre
<ul> <li>Environmental Services Assistants</li> <li>□ Obtain spill kit and bring to Code Brown location</li> <li>□ Don appropriate personal protective equipment</li> <li>□ Assist, as required, with the containment of the spill</li> <li>□ Assist, as required, with the cleaning of the area after the spill has been initially cleaned</li> </ul>
Recovery
11.3. Upon Notification That the Crisis Has Concluded
<ul> <li>Manager Environmental Services/Delegate</li> <li>□ Conduct a debriefing with involved staff</li> <li>□ Ensure any required documentation is completed and delivered to Occupational Health and Safety</li> </ul>
Environmental Services Assistants  ☐ Participate in a debriefing ☐ Resume normal duties

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Response & Recovery – Infection Control

<sup>&</sup>lt;sup>7</sup> Delegate refers to the next level of appointed authority. In this case, the Environmental Services Supervisor.

# 12.0 Response & Recovery – Radiation Safety Officer / Nuclear Medicine Technologist

## **Response**

If not completed already ensure section "2.3 Upon Occurrence or Discovery of a Radiological Spill" is referenced for staff actions

П	.1. Upon Notification of a Minor Radiological Spill Oversee the clean up of the radioactive spill
	Ensure the safe disposal of materials used to clean up the spill
	Ensure the monitoring and assessment of all personnel in the area as to the degree of
_	exposure, and the initiation of necessary medical treatment
П	Ensure that decontamination procedures are followed (Appendix A – Radioactive
_	Decontamination of Personnel)
	,
	.2. Upon Receiving the Code Brown (Radioactive Spill) Notification
	Assume command of the area in cooperation with Incident Commander
	Oversee the clean up of the radioactive spill
	Ensure the safe disposal of materials used to clean up the spill
	Ensure the monitoring and assessment of all personnel in the area as to the degree of
	exposure, and the initiation of necessary medical treatment
	Ensure that decontamination procedures are followed (Appendix A – Radioactive
	Decontamination of Personnel)
12	2. Upon Notification of an Unknown Padiocetive Spill
	.3. Upon Notification of an Unknown Radioactive Spill Report immediately to the spill site
□ Tre	·
□ Tro Co	Report immediately to the spill site eat the spill as major until proven otherwise, (Reference 12.2 Upon Receiving the
□ Tro Co Re	Report immediately to the spill site eat the spill as major until proven otherwise, (Reference 12.2 Upon Receiving the ode Brown (Radioactive Spill) Notification)
□ Tre Co Re 12 Fo or	Report immediately to the spill site eat the spill as major until proven otherwise, (Reference 12.2 Upon Receiving the ode Brown (Radioactive Spill) Notification)
□ Tre Co Re 12 Fo or are	Report immediately to the spill site  eat the spill as major until proven otherwise, (Reference 12.2 Upon Receiving the ode Brown (Radioactive Spill) Notification)  ecovery  4. Upon Notification That the Crisis Has Concluded  r minor radioactive spills only it will be the responsibility of the Radiation Safety Officer Nuclear Medicine Technologist to determine that it is safe to resume normal duties in an

For **major** radioactive spills the Radiation Safety Officer or Nuclear Medicine Technologist will consult with the Hospital's EOC to determine that it is safe to resume normal duties in an area where the radioactive spill occurred.

## 13.0 Appendix A – Radioactive Decontamination

### 1. Contaminated Wounds:

- 1.1. Decontamination of wounds takes priority over other contaminated areas.
- 1.2. Irrigate with copious amounts of normal saline, using bulb syringe for 3 minutes. Repeat irrigation if a radiation survey shows that contamination remains.
- 1.3. Surgical debridement may be necessary.
- 1.4. Save all tissue removed for analysis.
- 1.5. Suturing may then be carried out in the usual manner. There is no reason to leave the wound open unless closure has been so long delayed that infection is likely.
- 1.6. Cover decontaminated wound with dressing prior to washing other areas.

### 2. Contaminated Skin (intact):

- 2.1. Wash with soap and tepid water, and, if still contaminated, repeat washing.
- 2.2. If still contaminated, scrub gently with E-Z scrub brush. A mixture of 50% laundry detergent and 50% cornmeal or 3% solution of bleach may be used. If bleach is used, rinse immediately with water to prevent irritating the skin.
- 2.3. Discontinue washing if skin becomes irritated.

### 3. Contaminated Eyes:

- 3.1. Irrigate with eye stream in the direction of nose to temple.
- 3.2. Survey and repeat irrigation if necessary.

### 4. Contaminated Ear Canals:

- 4.1. Irrigate gently with a small amount of water.
- 4.2. Suction excess water to prevent pressure build up.
- 4.3. Survey and repeat irrigation if necessary.

### 5. Contaminated Nose or Mouth:

- 5.1. Turn head to side if possible
- 5.2. Rinse with small amounts of water suctioning frequently.
- 5.3. Avoid water getting into stomach.
- 5.4. Perform gastric lavage if necessary, monitoring and sampling contents.

### 6. Contaminated Hair:

- 6.1. Shampoo for 2-3 minutes and rinse thoroughly. Ensure conditioner is not applied.
- 6.2. Survey and repeat washing if necessary.
- 6.3. If necessary hair may be cut off, shaving must be avoided.

### 7. Burns

- 7.1. Gently wash burn area with lukewarm, sterile water and cover with a dressing.
- 7.2. The body will get rid of any remaining contamination on its own.
- 7.3. Large burned areas should not be washed because of the danger of hypothermia.
- 7.4. Skin regenerates every 14 days.

# 14.0 Appendix B – Radioactive Incident Report

Minor Incidents are those in which less than 5 ALI is involved. This form must be completed and a copy sent to the Radiation Safety Officer.  Major Incidents are those in which more than 5 ALI is involved. The Radiation Safety Officer / Nuclear Medicine Technologist must be informed as soon as possible after the incident has occurred. This form must be completed.		
·		
Date: / / Reported By:  YYYY MMM DD		
Name of Staff Involved in Incident:		
Patient(s) Involved in Incident?	□ Yes	Name:
	□ No	CR#:
Staff Contamination?	□ Yes □ No	
Location Where Incident Took Place:		
Date & Time of Incident:		
Isotope Involved:		Estimated Activity:
Description of Incident:		
Causes of Incident & Action Taken to Prevent Recurrence of Incident:		
Report Forwarded to:  ☐ Radiation Safety Officer ☐ Occupational Health and Sa	fety	<ul><li>□ Area Manager</li><li>□ Protection Services</li></ul>