



HAZARDOUS WASTE EMERGENCY RESPONSE PLAN

Revised: July 2012

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1.0 Policy

It is the policy of California State University, Bakersfield that all hazardous waste management be conducted in accordance with Cal-OSHA, Cal-EPA, Federal EPA and other regulatory guidelines. This program is designed to ensure proper management of hazardous materials/ wastes, identifies where wastes will be accumulated, and defines the roles and responsibilities for all persons who handle hazardous materials/ wastes at California State University, Bakersfield. No person shall accumulate, store, treat or dispose of hazardous materials or wastes without following the procedures set forth in this program.

2.0 Regulatory Authority

CFR Title 40, §260.1, Hazardous Waste Management

CCR Title 22, §66262.1 et al, Standards for the Management of Hazardous Waste

CCR Title 8, §3220, Emergency Action Plan

CCR Title 8, §5192, Hazardous Waste Operations and Emergency Response

CCR Title 8, §5194, Hazard Communication

California Health and Safety Code, §25100, Hazardous Waste Control Law

3.0 Definitions

Acutely hazardous waste:

Commercial chemical products, manufacturing chemical intermediates, or off-specification chemical products or manufacturing chemical intermediates referenced in 22 CCR §66261.33(e).

Extremely hazardous waste:

Any hazardous waste or mixture of hazardous wastes which, if human exposure should occur, may likely result in death, disabling personal injury or serious illness caused by the hazardous waste or mixture of hazardous wastes because of its quantity, concentration or chemical characteristics.

Hazardous material:

Any chemical or radioactive material used in research, custodial, physical plant maintenance, grounds, facilities maintenance or educational activities, etc., which poses a health and safety threat to employees and/or students or a

threat to the environment as a result of improper handling or disposal methods, or accidental release/discharge.

Hazardous waste:

Any discarded material in any form that is: 1) not excluded as a waste or hazardous waste, 2) is "listed" as a hazardous waste, and 3) exhibits any characteristic of a hazardous waste. Chemicals which have been used in a process or experiment and are contaminated or no longer necessary, or chemical byproducts of a process or experiment that have no further research, equipment or facilities value. Hazardous wastes also include the following:

- Chemicals that can no longer be used for their intended use
Mislabeled or unlabeled chemicals
- Abandoned chemicals
- Material in deteriorating or damaged containers
Diluted solutions containing hazardous chemicals
Debris contaminated with a hazardous material

Incidental release:

A release can be considered incidental only if there is **no** safety or health hazard involved in clean-up by the staff or faculty responsible for the work area. Incidental releases may be absorbed, neutralized or otherwise controlled at the time of the release by employees who work with the substance and who understand the hazards of the material, and follow the instructions provided on the product label and material safety data sheet. Responses to incidental releases of hazardous substances by employees in the immediate release area, or by maintenance personnel are not considered to be emergency responses within the scope of this program.

Satellite accumulation:

Accumulation of as much as 55 gallons of hazardous waste, one quart of acutely hazardous waste or one quart of extremely hazardous waste at or near any point of generation, provided the generator does not hold the waste on site for more than one year from the initial date of accumulation.

Small quantity generator:

A generator of hazardous wastes who in any calendar month generates no more than 1,000 kilograms (2,205 pounds) of hazardous waste in that month.

Uncontrolled release:

An uncontrolled release is accidental release of a hazardous substance from its container. If not contained, stopped, and removed, the release would pose a hazard to the employees in the immediate area or in areas in the path of the

release. Or from its byproducts or its effects (such as toxic vapors, fire, over-pressurization, toxic gases, or toxic particulates).

4.0 Training and Response Personnel

All individuals who work at first responders are trained to work safely within their scope of training for the materials they may encounter. Initial forty hour and eight-hour training is supplemented with annual refresher training.

40-hour Emergency Response Operations Level

The individuals below are trained to conduct hazard assessment and perform both defensive and offensive hazardous substance containment actions within the level of resources and personal protective equipment available.

- Adam Turner
Environmental Health and Safety
Manager
(661)-654-2871
aturner2@csub.edu
- Elizabeth Powers
Chemical Hygiene Officer
(661)-654-2580
epowers@csub.edu
- Raul Navarro
Environmental Health and Safety
Specialist
(661)-654-2581
rnavarro7@csub.edu
- Marlene Hensley
NSME Tech Support
(661)-654-3167
Mhensley2@csub.edu
- Jana Simmering
Instructional Support Technician
(661)-654-2180
jsimmering@csub.edu
- Bernardo Valencia
EHS Admin Support Assistant
(661)-654-2186
bvalencia8@csub.edu
- Yulissa Montoya
Risk Admin Support Assistant
(661)-654-2184
yrosales3@csub.edu

8-hour First Responder Awareness Level

All University Police Officers, Custodians, Facilities Management Tradesmen, FM Engineering and FM Groundmen have sufficient training to isolate a spill, deny re-entry, and assist with information gathering and regulatory reporting requirements described in the response plan.

Safety & Risk Management staff will provide training to all employees who handle hazardous materials in laboratories. Each employee receives training in the proper handling of chemical and emergency response procedures. SRM documents all emergency response training. Training records will be kept for at least three years from the date of training.

5.0 Hazardous Material Spill Identification

5.1 Major Spills

Chemical Spills Greater than 500 ml/gm –

A major spill is one that is greater than 500 grams or 500 ml, or any amount of an acutely hazardous material. An acutely hazardous material is any material that is imminently Select Agent Spills.

Any amount of regulated select agent released into the environment that could threaten the safety and health of the building occupants. Select agent spills are considered major spills. Upon identifying a release, laboratory occupants must immediately implement the major spill procedures.

Hazardous Gas Release

Any amount of hazardous gas released into the environment that could threaten the safety and health of the building occupants. Select agent spills are considered major spills. Upon identifying a release, laboratory occupants must immediately implement the major spill procedures.

Mercury Releases

Mercury is an extremely toxic and dangerous material. In an effort to reduce possible exposure risks all mercury spills are regarded as major spills. Upon identifying a release, immediately implement the major spill procedures.

Minor Spills

A small spill that is less than 500 grams or 500 ml of non-acutely hazardous materials.

5.2 INCIDENTAL RELEASE HAZARDOUS MATERIALS SPILL RESPONSE

Employees will:

- Notify other persons in the area;
- Isolate the spill area and keep people away;
- Laboratory personnel is responsible for the containment and clean up of all incidental releases;
- Contain spilled material(s) using absorbent pads and/or socks;
- Neutralize spilled material(s) using the appropriate neutralizing agent;
- Clean up neutralized material using dustpan and/or plastic scoop;
- Place neutralized material in waste container. Dispose of as hazardous waste; and
- Wash area where spill has occurred with water several times making sure no residue is left behind

5.3 MAJOR HAZARDOUS MATERIAL SPILL RESPONSE

Employees will:

- Notify other persons in the area;
- Isolate the spill area and keep people away;
- Notify University Police if the spill presents a health, safety or immediate environmental threat; and
- Notify the area supervisor.

Supervisors will:

- Review the product label and material safety data sheet information to verify that there are no health or safety threats;
- Contact Safety Risk Management (SRM) staff for assistance if there is ANY question about health, safety or environmental hazards;
- Notify University Police if the spill presents a health, safety or immediate environmental threat;
- Collect all waste for disposal; and
- Notify SRM of any incident that requires spill clean-up, so that regulatory reporting and/or waste disposal obligations can be met

Upon notification of a chemical release University Police Dispatcher will:

- Advise the responding officer of hazardous conditions;
- If warranted, advise the caller to activate the building fire evacuation alarm and to meet the officer outside, upwind of the spill location;
- If the report includes sight of flames, potential for fire or explosion, or serious injury/human chemical contamination, request Fire Department hazardous materials response immediately;
- Notify University Police Chief, Vice Presidents and Management Personnel of the affected department; and
- Notify the Director of Safety & Risk Management. If the Director is not available, request assistance from other campus staff trained to the 40-hour operational response level.

The responding University Police Officer will:

- Approach the spill from up wind;
- Isolate the area and deny further entry into the spill scene;
- Detain knowledgeable individuals at the scene;
- Consult with SRM emergency response operations staff to determine if additional help is required;
- Notify dispatch if fire department or contractor response is necessary;
- Identify a staging location for incoming fire or contractor response units, and
- Provide emergency medical aid ONLY if it can be done without risking personnel safety and/or contamination.

If no CSUB operational level emergency responders are available and there are ANY concerns about immediate safety and health hazards, request fire department hazardous materials response. If the spill presents no health, safety or environmental concerns while isolated but cannot be cleaned up because campus staff do not have adequate personal protective or containment equipment, contact North State Environmental at 909-875-9288 or 866-673-3200 for contract spill response.

The Director of Safety & Risk Management/ Operational Level Emergency

- Conduct a site hazard assessment including:
 - What spilled;
 - How much spilled;
 - Hazards of the material;
 - The location of injured or contaminated persons;
 - Need to shut down mechanical and electrical systems; and
 - Potential for environmental contamination.
- Determine if fire department or clean up contractor response will be needed;
- Relay hazard assessment information to dispatch for use by responding fire units; and
- Determine if a campus Public Information Officer is needed.

The Fire Department will:

- Assume joint command of the incident with SRM staff and University Police;
- Secure the scene, identify hazards and mitigate immediate threats to life, environment and property; and
- Remain on scene until they are satisfied that the clean-up is proceeding in a safe and effective manner.

The Fire Department will not provide clean up or remediation services. CSUB is responsible for providing qualified clean up services.

6.0 CONTRACT SERVICES

6.1 Chemical Spill

Response: North State
Environmental 1045
West Rialto Avenue
Rialto, CA 92376
24 hour phone: (909) 875-9288

Call North State Environmental for service to CSUB under the CSU hazardous waste disposal contract. Emergency response may also be activated by calling North State's 24-hour phones, 909-875-9288, 650-588-2838 or 866-673-3200.

Alternate chemical spill response companies are not authorized to remove chemical waste from the campus. The labeled containers should be transported hazardous waste accumulation area or to the Science Stockroom. Hazardous chemical waste disposal arrangements should be made through North State Environmental.

6.2 Alternates for Chemical Spill Response:

Kern Environmental Service
3752 Allen Road
Bakersfield, CA 93314
24 hour phone: (661) 589-5220

MSE Environmental, Inc.
1250-H Avenida Acaso
Camarillo, CA 93012
24-hour phone: (805) 987-0217

6.3 Biohazard Spill Response:

Dean Clean
5012 Sherman Ave.
Bakersfield, CA 93309
24-hour phone: 661-397-0700

Service Master
217 Daniels Lane
Bakersfield, CA 93307
24-hour phone: 661-324-4063

Biohazard spill response contractors are not authorized to remove biohazardous waste from the campus. The labeled containers should be transported to the Science Stockroom or Health Center.

7.0 CAMPU NOTIFICATIONS

The Office of Safety & Risk Management is responsible for notifying executive management of hazardous materials incidents that involve major injuries, property damage, the need for contract remediation services or coverage by the press. Activation of contract services should also be reported to Procurement. The ranking University Police Officer should make these notifications in the absence of the Director of Safety & Risk Management.

8.0 REGULATORY NOTIFICATIONS

SRM will make the required regulatory notifications if available to do so. If SRM staff is not available, University Police supervisory staff should obtain the needed information from emergency responders. Department Heads are responsible for assuring that reports of all incidental spills are supplied to SRM immediately following the incident, so that proper reporting can be carried out. If SRM staff is unavailable, incidental spill reports should be provided to the University Police.

The best rule is – IF IN DOUBT, REPORT IT!

- Report ALL hazardous materials releases equal to or in excess of 55 gallons of a liquid, 200 cubic feet of a gas or 500 pounds of a solid to the following agencies. Report any hazardous materials release or potential releases which threaten life, health (including need for medical treatment) or the environment to:
 1. California Emergency Management Agency Inland Region at 916-845-8470 or at <http://www.calema.ca.gov/HazardousMaterials/Pages/Spill-Release-Reporting.aspx>. Ask the OES Duty Officer if the chemical and quantity involved triggers Federal Title III notification requirements. If federal notification is required, call the National Response Center at 800-424-8802 or use the on-line reporting tool at <http://www.nrc.uscg.mil/>.
 2. Bakersfield Fire Department, Fire Prevention and Environmental Services Division should be notified as soon as possible, during normal working hours, at 326-3911. This notification must be made even if Bakersfield Fire responded to a 911 call for the incident.
- If a chemical has entered or may enter the canal on the east side of the campus, also contact the Arvin-Edison Water Storage District at 854-5573.
- If chemical has entered or may enter the canal along the North West corner of the campus, contact the City of Bakersfield Water Resources Department at 326-3715.

- If a chemical release is threatening wildlife or habitat, report it to the CA Department of Fish and Game Central Region at 559-243-4005 Ext 151.
- If the chemical release is a pesticide, also report the release to the Kern County Agricultural Commissioner's Office at 868-6300.
- All fires must be reported immediately to the CA State Fire Marshal's Office at 626- 305-1908. To report an explosion or fire related to arson, call 916-323-7390.

9.0 EARTHQUAKE HAZARDOUS MATERIALS RESPONSE

- Initiate spill response procedures for chemical releases.
- Contact Director of Safety, Risk and Sustainability for hazardous materials site safety and qualified persons response.
- Dispatch Facilities Management staff to turn off power to the Science Buildings. FM staff will need a confined space monitor to check for flammable vapors around the building that could collect in the electrical room prior to entry.
- Evacuate and secure the entrances into Science I and II. No CSUB staff should re- enter the Science Buildings until a contract or fire department hazardous materials emergency response team assess damage in the Science Stockroom and other chemical storage areas.
- Contact North State Environmental, Cole Environmental or an alternate contractor. Request an emergency response to inspect the Science Stockroom and all laboratories. Make certain that the electrical service has been disconnected prior to entry by emergency responders.
- Advise Facilities Management that no entry should be made into the Central Plant without the use of the confined space monitor. Release of freon has the potential to displace oxygen. Compressor oil entrained in freon can cause flammability.
- University Police officers should survey the other hazardous materials storage locations, from the outside and from a safe distance, for potential releases.

10.0 HAZARDOUS WASTE STORAGE LOCATION

- 90-Day Hazardous Waste Storage– Various chemical wastes may be stored inside the fenced enclosure located in between Science I and Science II.
- 180-Day Hazardous Waste Storage– Various chemical wastes may be stored inside the fenced enclosure located in front of the CA Well Core Repository.

EMPLOYEE OCCUPATIONAL MEDICAL MONITORING PROGRAM

Frequency and types of air monitoring, personnel monitoring, and environmental sampling techniques and instrumentation to be used, including methods of maintenance and calibration of monitoring and sampling equipment to be used. Air monitoring shall be used to identify and quantify airborne levels of hazardous substances, and health and safety hazards in order to determine the appropriate level of employee protection needed on site. When employees are handling leaking drums or containers or working in areas with obvious liquid contamination.

Confined space entry procedures are to be followed if necessary.

ADDITIONAL RESOURCES, CSU EH&S MUTUAL AID

The 10 southern CSU campuses have formed a mutual aid association to provide technical support during the first several days of a disaster. A call list for the Southern CSU EH&S Mutual Aid is available in University Police and has been provided to Business and Administrative Services department heads. Requests for these services should be routed through SRM, the Vice President for Business and Administrative Services or the campus emergency operations center. If phone calls cannot be completed, the CA Law Enforcement Telecommunications System computer may provide an alternate route of communication with other CSU University Police Departments.

The types of assistance available include: emergency response for hazardous materials; search and rescue; sanitation inspection; occupational safety; biological safety; fire & life safety; radiation safety; and industrial hygiene. Be sure to state the type of service that you need, so that appropriate personnel respond.

MATERIAL SAFETY DATA SHEETS

Material safety data sheets are stored in each department that uses chemicals. MSD's for the materials in the Science Stockroom are located in the foyer/counter area and are available 24-hours a day.



Spill Reporting Worksheet

Date of Incident
Time of Incident
Name of person reporting incident:
Callback number of person reporting incident:
Location of Spilled material (building/room #):
Material spilled:
Amount spilled:
State of spilled material (solid, liquid, or gas):
Has the spill been contained?
Is this a major or minor spill?
Is the material acutely hazardous? (If yes, immediately contact Supervisor, SR&S, and UPD)
Is the spilled material radioactive? (If yes, Supervisor, SR&S, and UPD)
Any injuries related to the spill
Notes:



Emergency Response Equipment Inventory

Part	Quantity
Mercury Spill Clean-Up Kit	2
Acid Neutralizer – 6 Shakers	2
Caustic Neutralizer – 6 Shakers	2
Solvent Absorbent – 6 Shakers	2
Formalin Neutralizer – 6 Shakers	2
Shovel	2
Broom	2
Absorbents Socks approx.. 20-40'	2
Absorbents towels/pads (box of 25)	2
Caution tape	2
Ph paper Large (range from 0-13)	2
Goggles	4
Face shield	2
Bib Apron	2
Tyvech Saronex Suits	12
Nitrile Gloves	2
Heavy Duty Nitrile Gloves	2
Full Face Respirators	2
Organic Vapors/Acid Gases Cartridge with HEPA filter (2 packages)	4
PID Four Gas Monitor (H2S, O2, LEL, Organics)	1
Flash Light	4
Tools	



**CALIFORNIA STATE UNIVERSITY, BAKERSFIELD
HAZARDOUS MATERIALS RELEASE NOTIFICATION DOCUMENTATION**

- Complete one section for each agency notified.
- Please print clearly.
- Attach any additional pertinent information.

Date _____

Time _____

Agency Notified _____

Name of Person Notified _____

Conditions Reported (material, concentration, amount, location) _____

Agency Representative Response or Instructions

Name of Reporting Party _____

Date _____

Time _____

Agency Notified _____

Name of Person Notified _____

Conditions Reported (material, concentration, amount, location) _____

Agency Representative Response or Instructions

Name of Reporting Party _____