

ESH Chapter 16 “Spills”

Stakeholder Final Review



Oops!

Is it Rad?

Wait, where is the MSDS?

Is that spill heading for the storm drain?

Always call 5555!

Uh-oh





What do you do when you discover a spill?





**– any spill,
no matter how large or small?**

Incident Notification

 **Life Threat** 
Smoke, Fire, Explosion
Large Hazardous Material Release

Call 911

Call ext. 5555

Supervisor

If in doubt, call 911 or ext. 5555

Incident Notification

 **Non-Life Threatening** 

Injury

**M-F
(8-4:30)**

Supervisor

Other

**SLAC
Medical**

ext. 5555

**Chemical & Radiation Incidents
Facilities or Equipment Damage**

Supervisor

ext. 5555

If in doubt, call 911 or ext. 5555

The Spills chapter update involves
no new requirements
but it has been completely rewritten,
so let's review to
identify inaccuracies or verify.

12 exhibits consolidated

into 4

Overview (roles & responsibilities)

Requirements (discovery and assessment)

Procedure (response, clean up and reporting)

Spill Report Form

Implementation

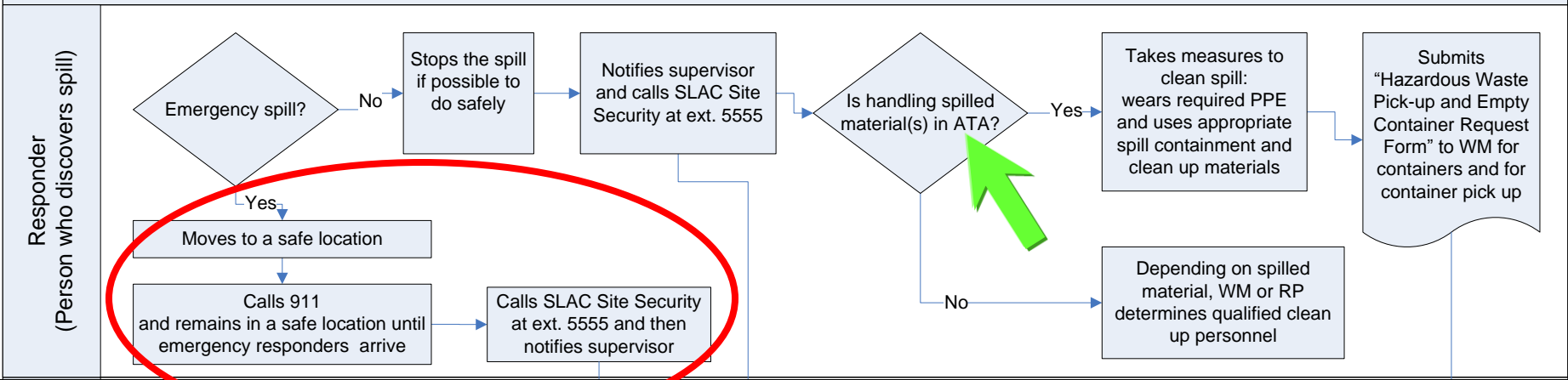
Immediate / already in place per

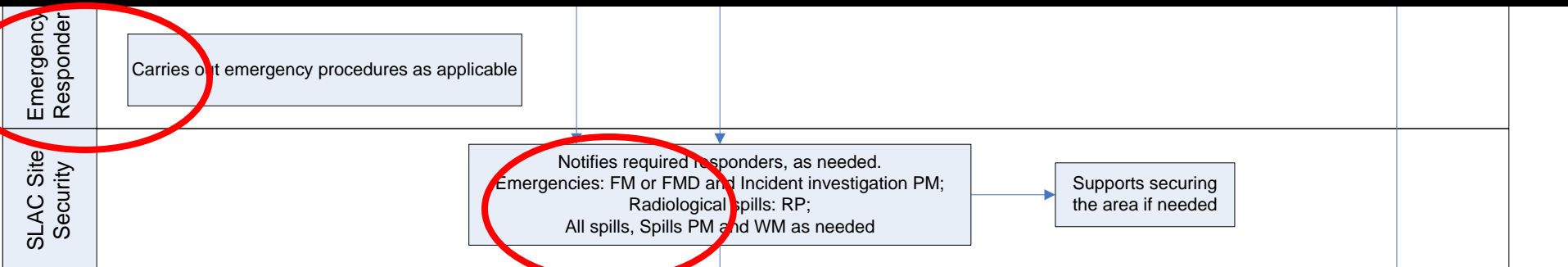
- Notification protocol
 - Related to 37, “Emergency Management”
- Recently updated ESH chapters
 - 2, “Work Planning and Control”
 - 28, “Incident Investigation”
- Spill prevention: no change
 - 40, “Hazardous Materials”
 - 26, “Stormwater”

Spill Response Roles and Responsibilities

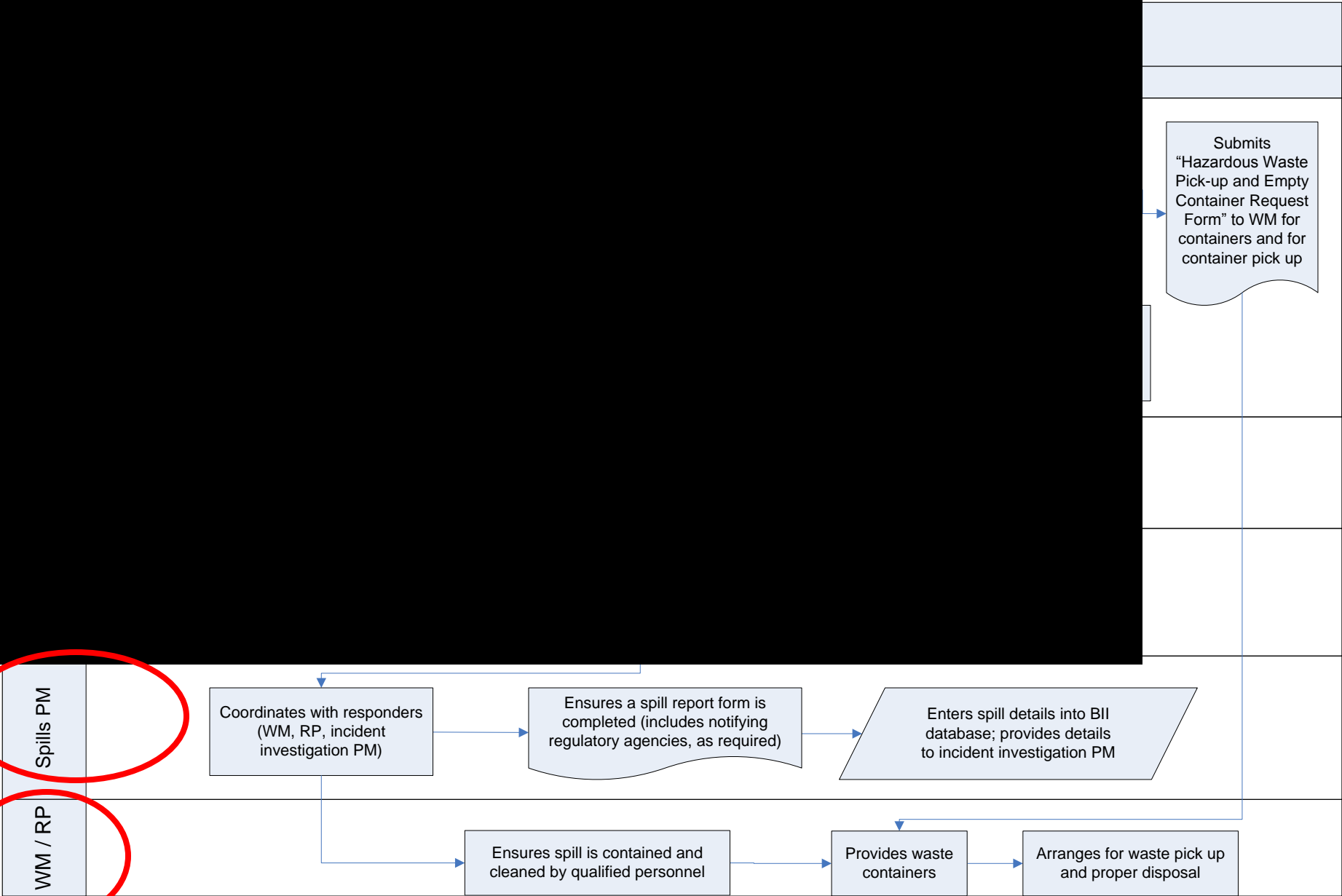
WM / RP	Spills PM	SLAC Site Security	Emergency Responder	Responder (Person who discovers spill)
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Spill Response Roles and Responsibilities





Always call 5555!



Spills PM

Coordinates with responders (WM, RP, incident investigation PM)

Ensures a spill report form is completed (includes notifying regulatory agencies, as required)

Enters spill details into BII database; provides details to incident investigation PM

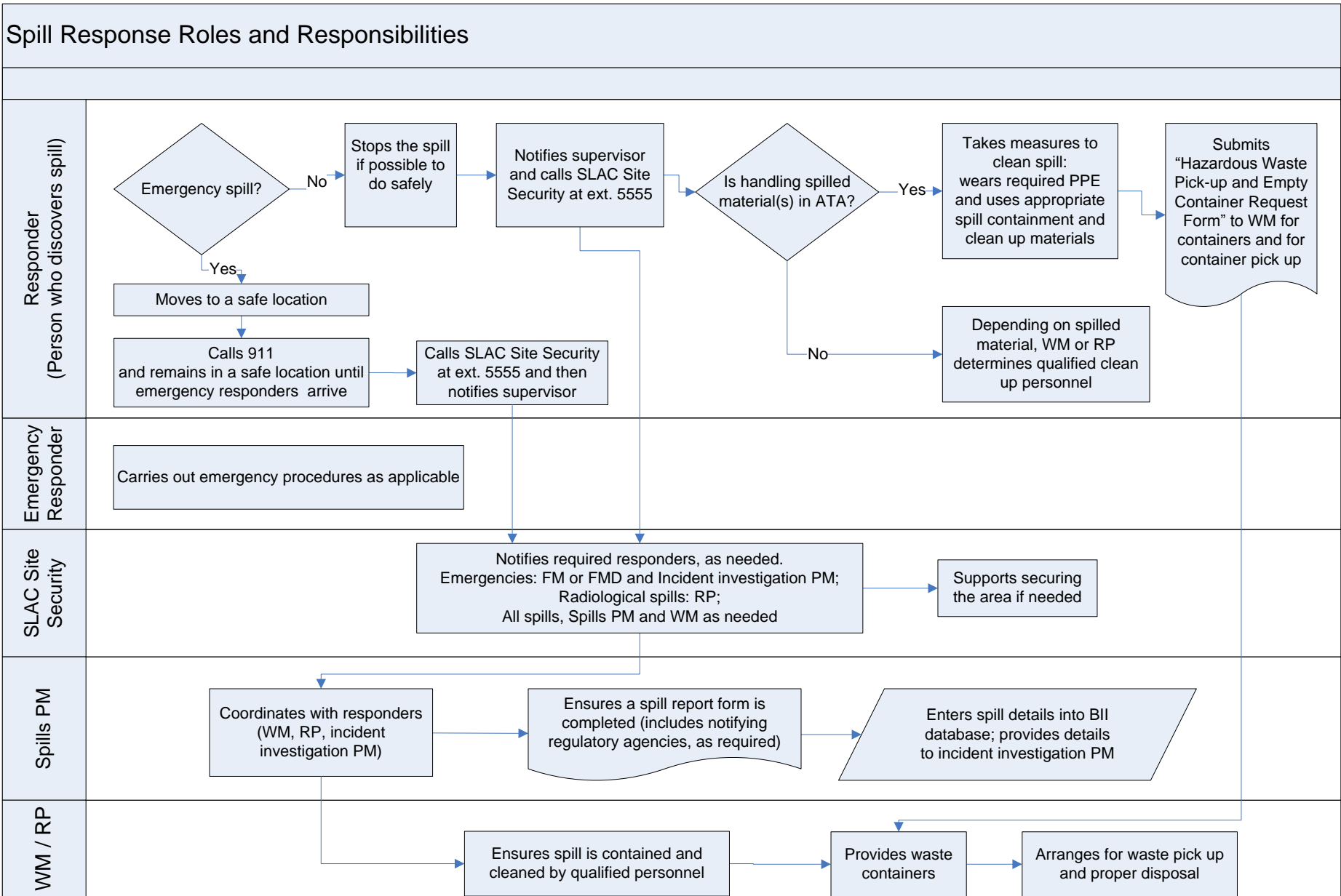
WM / RP

Ensures spill is contained and cleaned by qualified personnel

Provides waste containers

Arranges for waste pick-up and proper disposal

Submits "Hazardous Waste Pick-up and Empty Container Request Form" to WM for containers and for container pick up



ATA - Activity and training authorization
 BII - Basic Incident Information
 ESH - Environment, Safety, and Health
 FM or FMD - Facility manager or designee

PPE - Personal protection equipment
 PM - Program manager
 RP - Radiation Protection
 WM - Waste Management

Inaccuracies?

Gaps?



Spill Report Form

Environmental Protection Department

Submit the completed Spill Report Form to the Environmental Protection Department (EP), MS 77
 or contact the spills program manager at <http://www-group.slac.stanford.edu/esh/groups/ep/>

SPILL / RELEASE DESCRIPTION

Substance released:		CAS No. (if available)	Approx. quantity released	Reportable quantity
Spill date (mo/day/yr)	Spill start time: <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	Spill end time: same <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<input type="checkbox"/> Continuous flow <input type="checkbox"/> Intermittent flow <input type="checkbox"/> Discrete release	Occurring at time of discovery? <input type="checkbox"/> Yes <input type="checkbox"/> No

Primary mass contacted (<i>check all that apply and describe</i>) <input type="checkbox"/> Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Soil <input type="checkbox"/> To atmosphere	The primary mass entered (<i>check all that apply and describe</i>) <input type="checkbox"/> Sewer, manhole number: <input type="checkbox"/> Storm drain, catch basin number: <input type="checkbox"/> Creek <input type="checkbox"/> Atmosphere
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Location (<i>area, building number, room no. if applicable</i>)		<i>Degrees</i>	<i>Minutes</i>	<i>Seconds</i>
	<i>Latitude</i>			
	<i>Longitude</i>			

Describe the circumstances leading to the spill.

List immediate actions taken to stop / control / contain the spill and describe the results. (*calls made, equipment used*)

Spill area diagram: Include scale, north arrow, and nearby buildings for reference.
 Indicate the closest down-gradient catch basin and its distance from spill.

NOTIFICATION AND REPORTING (EP COMPLETES)**SLAC Internal**Internal notification (*required*):
Notify and keep updated:SLAC contacts (*notify as needed*):

- EP Department head
(Helen Nuckolls or acting head)
- ESH Division Director
(Craig Ferguson or acting director)

- Security: 650-926-5555
- Facility Manager Designee (FMD): 650-804-5465
- Spills program manager, Mike Hug: 650-926-4042
- Facilities Service Request: 650-926-8901
- Facilities Operations Manager: Ray Radau: page 650-940-0624, 650-906-4401
- Incident Investigation program manager: 650-849-9416
- Waste Management (WM): ext. 2399; day 650-849-9493 (pager), off-hours 650-849-9484
- Other:

SLAC External: Reportable Quantity

*If a spill exceeds a reportable quantity immediately notify the appropriate regulatory agency: see contact information below.
Provide details by phone or website and follow up with a report, as required.*

Substance	Reportable Quantity	State Office of Emergency Services (OES)	San Mateo County Health Department (SMC)
Chemicals	See 40 CFR 302	yes	-
Mercury (into environment)	1 pound	yes	-
Oil (in or on state waters)	42 gallons	yes	yes
Sewage (into storm drain)	Any	-	yes
Water (into storm drain)	1,000 gallons	-	Courtesy call
Other spills	See red spill reporting binder in Building 24, Room 120 EPA I.D. No. CA8890016126		

Agency Contact Log

Agency	Contact	Contact Person	EP Contact Person	Time	Date
SMC	business hours 650-372-6200				

BASIC INCIDENT INFORMATION (BII) DATABASE

Causal Analysis

- Design / Engineering
- Equipment / Material
- Human performance / Error
- Management
- Communication
- Other: describe

Significance Level

- Serious
- Important
- Minor
- Trend

Responsibility *(add name and contact information if available)*

- Non-SLAC
- Subcontractor
- SLAC Department