DOCUMENT TITLE	DOCUMENT DESCRIPTION	KEY POINTS
	Preparedness	
U.S. DHS National Protection and Programs Directorate U.S. Dept. Labor Occupational Safety and Health Administration U.S. EPA Office of Solid Waste and Emergency Response	This document was prepared under the authority of Executive Order (EO) 13650 - Improving Chemical Facility Safety and Security, which was issued by President Obama on August 1, 2013 in response to recent catastrophic chemical facility incidents, such as the West, Texas disaster. The EO directed the Federal Government to "to identify ways to improve operational coordination with State, local, tribal, and territorial partners; to enhance Federal agency coordination and information sharing; to modernize policies, regulations, and standards to enhance safety and security in chemical facilities; and to work with stakeholders to identify best practices to reduce safety and security risks in the production and storage of potentially harmful chemicals." This report summarizes the progress of a Working Group established to implement the EO and includes findings, lessons learned,	 Commits federal agencies to specific activities to improve operational coordination, to modernize regulations, and to identify best practices. Contains a link to a repository of best
Executive Order 13650 Actions to Improve Chemical Safety and Security – a Shared Commitment May 2014 99 Pages	challenges, and priority next steps. The document provides a federal action plan with specific short-term (within 1 year), mediumterm (prior to the end of FY 2016), and long-term (after FY 2016) actions to be taken by federal agencies to accomplish the Executive Order. The document contains a link to a repository for best practices (a bit sparse at this time and still being populated). The EO Working Group strongly encourages stakeholders to continue to contribute to this effort by submitting successful practices to the chemical facility safety and security online best practices forum at https://www.llis.dhs.gov/topics/chemical-facility-safety-and-security	practices. Useful Glossary of Terms with good descriptions of relevant programs and links to pertinent documents, laws, etc. Useful appendix containing a list of resources and applicable links.
	 In terms of supporting LEPCs and SERCs, this report lists several activities that the federal agencies will accomplish in the next year, including: Work with SERCs and TERCs to develop on-line training, including supervising and coordinating the activities of LEPCs and collecting, managing, using, and making available chemical information. 	 Lists significant chemical incidents in the U.S. Contains section on frequent topics and themes heard

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 Develop guidance and training for, and hold regional workshops with, LEPCs and TEPCs to reinforce their authorities, roles, and responsibilities and identify barriers to meet their requirements for development and implementation of local emergency response plans. DHS will add two layers of data to the Infrastructure Protection Gateway. One layer will be available to the LEPCs and TEPCs and will identify regulated and unregulated facilities on a geospatial map and supply the facility name and address. A second layer will be available to SERCs and TERCs and will also provide chemical information. Strengthen technical assistance and guidance to LEPCs and TERCs to help local and tribal emergency planners understand and use chemical facility information to help better protect communities. One short-term goal to strengthen planning and preparedness is to compile preparedness funding information sources, including grants, technical assistance, fee systems, mutual aid opportunities and private sector funding, for use by LEPCs and SERCs. 	during stakeholder meetings.
A medium-term goal is to develop a compendium of best practices for LEPCs and TEPCs on implementing chemical emergency prevention, preparedness, and response programs, including mechanisms for accessing funding and establishing modern notification systems. The report includes a section specifically on improving ammonium nitrate safety and security. This could be an issue in rural areas where the chemical is used in large quantities for fertilizer.	
Executive Order 13650 can be found online at: http://www.whitehouse.gov/the-press-office/2013/08/01/executive-order-improving-chemical-facility-safety-and-security This document can be found online at:	
	 Develop guidance and training for, and hold regional workshops with, LEPCs and TEPCs to reinforce their authorities, roles, and responsibilities and identify barriers to meet their requirements for development and implementation of local emergency response plans. DHS will add two layers of data to the Infrastructure Protection Gateway. One layer will be available to the LEPCs and TEPCs and will identify regulated and unregulated facilities on a geospatial map and supply the facility name and address. A second layer will be available to SERCs and TERCs and will also provide chemical information. Strengthen technical assistance and guidance to LEPCs and TERCs to help local and tribal emergency planners understand and use chemical facility information to help better protect communities. One short-term goal to strengthen planning and preparedness is to compile preparedness funding information sources, including grants, technical assistance, fee systems, mutual aid opportunities and private sector funding, for use by LEPCs and SERCs. A medium-term goal is to develop a compendium of best practices for LEPCs and TEPCs on implementing chemical emergency prevention, preparedness, and response programs, including mechanisms for accessing funding and establishing modern notification systems. The report includes a section specifically on improving ammonium nitrate safety and security. This could be an issue in rural areas where the chemical is used in large quantities for fertilizer. Executive Order 13650 can be found online at: http://www.whitehouse.gov/the-press-office/2013/08/01/executive-order-improving-chemical-facility-safety-and-security

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	Planning	
U.S. Environmental Protection Agency Measuring Progress in Chemical Safety: A Guide for Local Emergency Planning Committees and Similar Groups	This is a U.S. EPA document describing "how LEPCs can measure their progress and determine if the actions they are taking continue to achieve the desired outcomes. This approach is based on 'Guidance on Developing Safety Performance Indicators related to Chemical Accident Prevention, Preparedness and Response for Public Authorities and Communities' published by the Organization for Economic Development (OECD) in December 2008. There is also Guidance on Developing Safety Performance Indicators for Industry. The full guidance may be found at www.oecd.org/ehs . An interactive website allows LEPCs to select and customize their review program at http://oecdsafetyindicators.org/ ."	Planning approachesMeasuring LEPC
Document is undated, but website was updated on March 16, 2014. 12 Pages	This document refers to the OECD guidance and describes how to use the OECD guidance to develop "performance indicators" (goals) based upon the risks, capacities and conditions in the LEPC area, making the measurements relevant to the LEPC communities. The document offers specific examples of goals that may be relevant to an LEPC. This document can be found online at: http://www2.epa.gov/epcra/measuring-progress-chemical-safety-guide-local-emergency-planning-committees-and-similar	performance
U.S. Environmental Protection Agency	In April 2008, EPA conducted a Nationwide Survey of LEPCs. EPA had surveyed LEPCs in both 1994 and 1999 to gauge levels of LEPC compliance and activity, and this was the first survey since then. The goals of the 2008 survey were to:	Survey was performed electronically
2008 Nationwide Survey of Local Emergency Planning Committees	 Track the progress of LEPCs by assessing their current activity; and, Assess current LEPC practices and preferences regarding several important issues, including: communication with local citizens, proactive accident prevention efforts, and the effectiveness of selected EPA products and services. 	 Survey questions are available in document LEPCs that have had hazmat
Document undated, but survey conducted in 2008	The survey was performed electronically. Approximately 40% of LEPCs responded. Key findings include:	incidents were the most active LEPCs • LEPCs report
47 Pages	1. Dedicated membership is the greatest single factor contributing to an LEPC's success	needing assistance

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	 (33.3%). Nine out of every ten responding LEPCs met at least once in the past year — three quarters of those LEPCs met at least quarterly. Almost 60% of responding LEPCs reviewed and updated their emergency plan in the past 12 months. Three out of four responding LEPCs indicate that the majority of their membership is familiar with their emergency response plan. Over 75% of responding LEPCs exercised their emergency response plan in the past year with nearly seven of ten conducting full-scale exercises. The most active LEPCs are those that had at least one accident in the past five years. While three out of four LEPCs did not receive any technical assistance or guidance from the federal government in the past five years, of those that did, 58.6% report that the assistance came from EPA. Nearly 70% of responding LEPCs that receive EPCRA Tier I and Tier II data receive it in the paper format. Over half of responding LEPCs use CAMEO. Two out of five responding LEPCs have an operating budget of which 35.9% is direct funding. Since the last LEPC survey in 1999, the percentage of LEPCs that incorporate homeland security into their emergency response plans nearly doubled (from 40.3% in 1999 to 77.5% in 2008). Since 9/11, nearly half of responding LEPCs reported increasing their overall activity level. Only 4.0% said the overall activity level of their LEPC decreased since the events of 9/11. 	in public outreach and communication • LEPCs have requested that EPA prepare a compilation of best practices or operational guidance.
	The areas in which responding LEPCs most need assistance are outreach and communication with the public (42.5%) followed by identification of and compliance assistance for non-reporting facilities (39.7%). Some LEPCs requested that EPA develop a compendium of LEPC Best Practices or operational guidance.	

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	This document can be found online at: <pre>http://www.epa.gov/oem/docs/chem/2008 lepcsurv.pdf</pre>	
State of California	The purpose of these documents is to provide reference tools and information useful for	
Governor's Office of	hazardous materials incident preparedness, response, mitigation, and recovery.	
Emergency Services	The documents are divided into four parts:	
Hazardous Materials Toolkit: Parts 1-4	 Part One provides background information on the Tool Kit and the information about the hazardous materials "encountered in emergency response within the State of California." 	Provides reference toolsIncludes concept of
January 2014 15 Pages 78 Pages	 Part Two encompasses the concept of operations for a hazardous materials incident, including preparedness, response, recovery, and mitigation. This part integrates the steps in the concept of operations with the information that is required for a particular stage of emergency management, such as training, drills and exercises, notification, SEMS, NIMS, , and ICS. 	 Includes concept of operations Includes agency roles
	 Part Three explains the roles of the various agencies involved in a hazardous materials incident, along with a description of the resources available during an incident. Part Four includes various attachments to the Tool Kit. 	
Texas Governor's Division of Emergency Management	This document was prepared by the Texas Governor's Division of Emergency Management. Like California, Texas had hazardous material emergency laws in effect prior to the adoption of EPCRA and the document describes both sets of laws related to the functions of the	Describes a useful working management
Local Emergency Planning	LEPCs. This document includes the information an LEPC needs to organize and function. It	structure for an
Committee (LEPC): A Primer	describes a useful working management structure for an LEPC, including subcommittee	LEPCDescribes attributes
for Local Planning for Hazardous Materials	functions, bylaws, meetings, and recordkeeping. The document includes some template- ready forms and plans.	of a well-
July 26, 2006	As background, the document characterizes the role of the LEPC as "a partnership between local government and industry as a resource for enhancing hazardous materials	functioning LEPC • Good format with well-organized information on

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123 Pages	preparedness." And industry's role as "It is necessary for industry to be a part of this	legal basis, LEPC
-	planning process to ensure facility plans are compatible with local emergency plans."	duties, reporting requirements,
	 The document contains a section that describes the attributes of a successful LEPC, including: Clearly defined goals; Training in the legal basis of the LEPC and knowledge about what is expected of them; 	levels of compliance, hazards analysis, risk management,
	 Comprised of the people with responsibilities and interests from broad-based community representation; 	and exercises and training
	 Maintain a working relationship state and federal agencies responsible for their program, and with peers from other LEPCs; 	• Extensive, useful appendices, including some
	 Meetings that are scheduled at regular and convenient times; 	templates
	 Meetings that adhere to the agenda and are concerned with common interests; and, 	·
	Strong leadership and designated staff.	
	The document has a good format, and presents information on EPCRA and State law, LEPC	
	duties and organization, reporting requirements for businesses, emergency planning	
	requirements and reviews, community-level hazards analysis, and training and exercises.	
	There is a section on LEPC role in hazmat response options, including training, coordination, and funding.	
	The document contains extensive, useful appendices, include:	
	Planning Principles and Perils: A Guide to Effective Planning	
	 Hazardous Materials Planning Standards and Criteria 	
	Sample LEPC Bylaws and Rules	
	 Examples of LEPC Support/Funding Sources 	
	State and Federal Hazardous Materials Reporting Requirements	
	Computer Applications in Hazardous Chemical Emergency Management	
	Community Awareness and Outreach	

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	 National Response Plan National Incident Management System (NIMS) National Response System/National Oil and Hazardous Substances Pollution Contingency Plan (NCP) 	
	This document can be found online at: http://www.txdps.state.tx.us/dem/CouncilsCommittees/lepc/lepc handbook texas 07262006 .pdf	
	AREA PLANS	
Sacramento County Environmental Management Department Area Plan for Emergency Response to hazardous Materials Incidents in Sacramento County September 2012 198 Pages	 The Sacramento County Area Plan includes sections corresponding to Title 19 CCR §§ 2720 through 2728: Description and implementation of the Area Plan, including integration of business plans; Emergency response procedures, including approach, evaluation, and decontamination; Pre-emergency planning, including pre-incident surveys, planning and coordination contractor access, and integrated response management; Notification and coordination, including emergency communications, and responsibilities; Training, including documentation and exercises; Public safety and information, including perimeter security, safety information, information release, and evacuation; Supplies and equipment, including lists, testing, and maintenance; Incident critique and follow-up; and, Appendices, including Guidelines for declaring an emergency, examples of notification diagrams, telephone numbers, checklists, sample forms, records for revisions and distribution, and terms and acronyms. 	• Area Plan

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	The Sacramento County Area Plan includes sections required by the Pesticide Drift Exposure Response Act, SB 391 (Florez-Escutia) for pesticide drift incidents.	
	REGIONAL PLANS	
California Governor's Office of Emergency Services; the Cities of Oakland, San Francisco, and San Jose; the Counties of Alameda, Contra Costa, Marin, Napa, San Mateo, Santa Clara, Santa Cruz, Solano, and Sonoma San Francisco Bay Area Regional Emergency Coordination Plan: RECP Hazardous Materials Subsidiary Plan March 2008 75 Pages	This document is a subsidiary to the San Francisco Bay Area Regional Emergency Coordination (RECP), which was prepared in accordance with national and state emergency management systems and plans, and developed in the event of an incident in the Bay Area that requires the activation of the Regional Emergency Operations Center. The RECP encompasses the 16 counties in the CalOES Coastal Region: • Alameda • Napa • Contra Costa • San Benito • Del Norte • San Francisco • Humboldt • San Mateo • Lake • Santa Clara • Marin • Santa Cruz • Mendocino • Monterey • Sonoma The RECP Hazardous Materials Subsidiary Plan provides a system for regional coordination a response. The RECP Hazardous Materials Subsidiary Plan clearly describes the capabilities and roles of the federal, state, and local agencies, which is also shown in a table format in the appendices. The concept of operations is detailed, along with establishment of incide command, depending on the type of incident. The document includes an appendix that identifies and describes the appropriate notification processes. There is also an appendix that provides information and guidance that is specific to the threat of an oil spill in Bay Area waters. The RECP can be found online at: http://www.mtc.ca.gov/planning/emergency/RECP_BASE_PLAN.pdf	 LEPC coordination plan Roles and responsibilities for regional response

DOCUMENT TITLE		DOCUMENT DESCRIPTION	KEY POINTS	
Region IV Local Emergency Planning Committee Hazardous Materials Emergency Plan September 2011 207 Pages	http://develop.oes.ca. 20Branch/\$file/RECP% This document is the Hencompasses 11 cone Alpine Amador Calaveras El Dorado Nevada Placer The objectives of this of the Hencompasses Facilities in the than the Califor The routes use Facilities that route and the Calary facility. Community and	can be found online at: gov/WebPage/oeswebsite.nsf/ClientOESFileLibrary/Coastal%20Region% 20Hazardous%20Materials%20Plan.pdf lazardous Materials Emergency Plan for LEPC Region IV, which unties and one city that have area plans: Sacramento San Joaquin Stanislaus Tuolumne Yolo City of Roseville cocument are to identify: region that have extremely hazardous substances in a quantity greater rnia Accidental Release Program (CalARP) threshold quantities. d to transport extremely hazardous substances. may contribute or be subject to additional risk by their proximity to a	 LEPC coordination plan Roles and responsibilities for regional response Lists of trained 	
	 affected by a residual properties. Emergency equipment of the emergency and substances, incomparison of the emergency and substances, incomparison of the emergency and substances. Methods and substances of the emergency and substances of the emergency and substances. Training programmedical person 	etermining the occurrence of a release and the areas likely to be elease. Lipment and facilities and an identification of the persons responsible ment and facilities. Liprocedures to be followed by facility owners and operators and local dimedical personnel to respond to a release of extremely hazardous cluding evacuation plans. Lichedules for exercising the emergency plan. Lams, including schedules, for training of local emergency response and	Lists of trained personnel and emergency response equipment	

DOCUMENT TITLE	DOCUMENT DESCRIPTION	KEY POINTS
	environmental centers in each jurisdiction. The document describes how the region will manage emergency operations and the hazmat response capabilities in the region. This document contains lists of personnel in the region that are trained for hazmat emergency response and list of equipment that is available within the region.	
	This document can be found online at: <pre>http://www.edcgov.us/Government/EMD/HazardousMaterials/Hazardous_Materials_Plans.</pre> <pre>aspx</pre>	
Pima County Local Emergency Planning Committee	This document was reviewed because neighboring states have similar issues and have developed some different approaches. Pima County is a rural county in Arizona that is crossed by major transportation routes where hazardous materials are transported.	
Hazardous Materials Emergency Response Plan	This document is a tool for guidance for the stakeholders within Pima County to prevent and respond to a hazardous materials release. The document includes: identifying the tasks to be performed and who is to perform them; the resources available; the conditions that may	• In cituation
Updated December 2013 76 Pages	exist near potential release locations; and, planning for response and recovery. The document describes incident trends for transportation, pipeline, and fixed facilities. The document explains the overlap of hazardous materials laws and reporting requirements – EPCRA, RMP, CERCLA, facility plans, and state and local requirements. The document provides a capability assessment of the resources available.	 In situation overview section, illustrates how the results of a commodity flow study along with fixed facility reports were used to
	The document contains the usual plan elements: concept of operations;, organization and assignment of responsibilities; communications; administration, finance and logistics; plan maintenance and development; and, authorities and references.	describe the area's potential hazards.
	This document can be found online at: <pre>http://www.pima.gov/lepc/pdf/Pima Revised HazMat Plan FINAL.pdf</pre>	

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	State Plans	
State of California	This document is intended for the State planning purposes. The purpose of this document is to	
Governor's Office of	"serve primarily as an umbrella and reference document, not as an operational tool." It is to	
Emergency Services	be used in conjunction with the California State Emergency Plan and jurisdiction-specific operational plans.	
State of California Hazardous		
Materials Incident	The document has the following sections:	
Contingency Plan	Basic Plan, including background information and roles and responsibilities	
January 1991	Managing Emergency Operations, incorporating ICS principles, for Command, Operations, Logistics, Planning, and Finance.	Umbrella document that is to be used in
January 1991	Operations, Logistics, Planning, and Finance	conjunction with
160 Pages	Training Requirements and Personal Protective Equipment	other jurisdiction-
100 Pages	Hazmat Response Position Descriptions	specific plans.
	Portions of the document, including threat assessment, description and roles of State agencies, oil spill response, legal basis and intersection with other laws, accessing resources, finance, communications, are out-of-date. If updated, this document would be useful in describing how the various plans, agencies, and resources are integrated.	Out-of-date.
	This document can be found online by looking for HazMat Incident Contingency Plan (HMICP)	
	at: http://www.calema.ca.gov/hazardousmaterials/pages/hazardous-materials.aspx	
State of California	The first part of the California State Oil Spill Contingency Plan is provides information on what	Initial section is in a
California Department of Fish	is a reportable oil spill, who is responsible for reporting, and the numbers and contacts for	convenient format
and Wildlife	reporting.	relating to who has
Office of Spill Prevention and		to report and the
Response	This document is a stand-alone plan that describes the state response to oil spills, including	contact information for reporting.
	spills to land, highways and roads, railroads, surface water (marine and inland), and	Clear description of
California State Oil Spill	groundwater. The document also includes response to oil spills on Tribal Lands. The	authorities,
Contingency Plan	document defines the authorities, roles, responsibilities, capabilities and limitations of	contingent on the

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2013	responding agencies, including state, federal and local agencies, and non-governmental agencies and volunteers.	site of oil spill. • Useful section on capabilities and
101 Pages	The document includes a description of the physical and chemical characteristics of oil, the movement of spilled oil in the environment, and the impact of spilled oil on wildlife and ecologically sensitive areas. The document describes the general response actions taken to contain, recover, and mitigate spilled oil. Included are checklists and decision trees for the use of dispersants. The document contains information on spill quantification and natural resource damage assessment and restoration. The Oil Spill Contingency Plan contains information on response funding and cost recovery, including state and federal funding sources. This document can be found online at: http://www.dfg.ca.gov/ospr/	limitations of responding agencies. • Statutory requirements appendix is a useful format.
	Legal Basis	
State of California Governor's Office of Emergency Services	This is a reference document that provides the laws that govern hazardous material area plans in California.	
Summary of Laws and Regulation for Hazardous Material Area Plans	Pertinent parts of statutory law are found in California HSC, §§25500 – 25519. Pertinent parts of regulatory laws are found in Title 19 CCR §§2720 – 2728. Excerpts include authorities, required content, minimum standards, and notification and	 Excerpts of the pertinent statute and regulation regarding hazmat
February 26, 2014	coordination. Before relying on this document, the status of changes to the laws should be verified.	area planning in California.Verify before citing.
14 Pages	This document can be found online by looking under "Area Plan: Publications" at: http://www.calema.ca.gov/HazardousMaterials/Pages/Publications.aspx	

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National Association of SARA Title III Program Officials NASTTPO guidance on CFATS emergency planning January 13, 2008 40 Pages	This document is a reference paper that provides a side-by-side comparison of the requirements of the Chemical Facility Anti-Terrorism Standards (CFATS), Emergency Planning and Community Right to Know Act (EPCRA), and the Risk Management Plan (RMP) under the Clean Air Act. The document describes the key requirements of CFATS. In the side-by-side comparison, the compared issues include: • Facilities regulated, • Chemical threshold quantities, • Calculation of thresholds, • Treatment of mixtures, and • Emergency planning/reporting In addition to the side-by-side comparison, the document includes a version of the EPA "List of Lists" edited to add the list of chemicals and thresholds from the CFATS program (as of the date of the document). This document can be found online at: http://nasttpo.com/pdfs/NASTTPO-guidance-CFATS-emc-planning.pdf	 Comparison of key requirements of CFATS, EPCRA, and RMP. Useful format for showing overlaps and gaps in coverage by the three laws compared.
	Rail Transport	
The Pipeline and Hazardous Materials Safety Administration U.S. Dept. Transportation Safety Alert – Preliminary Guidance from Operation Classification	This document is a PHMSA safety alert to notify the general public, emergency responders and shippers and carriers that recent derailments and resulting fires indicate that the type of crude oil being transported from the Bakken region (underlying parts of Montana, North Dakota, Saskatchewan and Manitoba) may be more flammable than traditional heavy crude oil. The safety alert cites recent derailments as the need to requirement to properly characterize, and, where appropriate, degasify hazardous materials prior to and during transportation. The safety alert describes the hazards of the material and states that the materials pose significant fire risk if released during an accident.	Rail transport safety alert

DOCUMENT TITLE	DOCUMENT DESCRIPTION	KEY POINTS
January 2, 2014 2 Pages International Association of	The safety alert describes a program known as "Operation Classification," which involves unannounced inspections and testing of crude oil samples to verify that the materials have been properly classified. Testing has focused on the gas content, toxicity, flammability, Reid Vapor Pressure, corrosivity, hydrogen sulfide content, and the composition of entrained gases in the material. This document can be found online at: http://www.phmsa.dot.gov/pv obj cache/pv obj id 111F295A99DD05D9B698AE8968F7C 1742DC70000/filename/1 2 14%20Rail Safety Alert.pdf This document refers to the January 2 2014 PHMSA safety alert that notified emergency.	
International Association of Fire Chiefs Safety On Scene: Bakken Crude Oil – Rail Response Considerations Undated, but after January 2, 2014	This document refers to the January 2, 2014 PHMSA safety alert that notified emergency responders that recent derailments and resulting fires indicate that the crude oil originating in the Bakken region (underlying parts of Montana, North Dakota, Saskatchewan and Manitoba) may be more flammable than crude oil from other regions. The IAFC prepared this Safety On Scene briefing for first responders. The briefing describes the issues and the appropriate responder preparedness. This document can be found online at: http://www.iafc.org/files/1HAZ/safetyOnScene_haz_crudeOilBakken.pdf	Rail transport safety alertPreparedness
2 Pages Congressional Research	This document describes the issues surrounding the large and rapid increase of rail transport of	Summary of
Service John Frittelli , Anthony Andrews, Paul W. Parfomak, Robert Pirog, Jonathan L. Ramseur, Michael Ratner	crude oil in the U.S. "North America is experiencing a boom in crude oil supply, primarily due to growing production in the Canadian oil sands and the recent expansion of shale oil production from the Bakken fields in North Dakota and Montana as well as the Eagle Ford and Permian Basins in Texas. Taken together, these new supplies are fundamentally changing the U.S. oil supply-demand balance. The United States now meets 66% of its crude oil demand from production in North America, displacing imports from overseas and	Significant Oil by Rail Derailments in U.S. and Canada in 2013 and 2014 Discussion of issues related to the safety of rail
U.S. Rail Transportation of	positioning the United States to have excess oil and refined products supplies in some	transport of crude

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Crude Oil: Background and Issues for Congress	regions." The report discusses the economics of moving oil by rail, concerns about oil spills, federal oversight of rail safety, and issues for Congress to consider. Among the issues presented to congress for consideration are: rail safety, tank car safety design, preventing	oil. • Not much of a discussion of the
May 5, 2014 Document No. 7-5700	derailments, railroad operations, incident and spill response, and rail vs. pipeline or waterborne transport.	issues of state and local response to accidents in a
25 pages	In addition to the concerns about Bakken crude, the report discusses the special concerns about the safety and environmental consequences of "dilbit," a form of bitumen diluted with naphtha generated from the Alberta oil sands.	regulatory environment where there is federal oversight and a lack of specific, timely information.
	Regarding federal oversight the report states: "The Federal Railroad Administration (FRA) has jurisdiction over railroad safety. It has about 400 federal inspectors throughout the country and also utilizes state railroad safety inspectors. State inspectors predominantly enforce federal requirements because federal rail safety law preempts state law, and federal law is pervasive. The FRA uses past incident data to determine where its inspection activity should be targeted, although the FRA Administrator stated that in light of the growth of crude-by-rail transportation, the agency also must look for 'pockets of risk.' FRA regulations cover the safety of track, grade crossings, rail equipment, operating practices, and movement of hazardous materials (hazmat). The Pipeline and Hazardous Materials Safety Administration within DOT (PHMSA) issues requirements for the safe transport of hazmat by all modes of transportation, which the FRA enforces with respect to railroads." Congress is considering a bill that would require railroads to have at least two crew members on board all trains. "In addition, policy makers are discussing regulatory changes involving tank car design, prevention of derailments, and selection of preferred routes for transporting oil by rail. Congress may evaluate these changes in the reauthorization of the Rail Safety Improvement Act of 2008 (P.L. 110-432)." This document can be found online at: http://fas.org/sgp/crs/misc/R43390.pdf	

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State of California Interagency Rail Safety Working Group	"In January 2014, the Governor's Office convened a Rail Safety Working Group to examine safety concerns and recommend actions the state and others should take in response to this emerging risk. This report contains a summary of initial recommendations from the Working Group."	
Oil by Rail Safety in California		
Preliminary Findings and Recommendations June 10, 2014	The report describes recent oil-rail accidents and discusses the possible causes, including track failures, inadequate rail car equipment, and human error (such as leaving cars unattended without proper braking systems). The report states that some experts believe many recent rail car failures are due to unique risks posed by transporting oil from the Bakken shale	 Describes scope of oil shipping in the state by rail. Describes recent oil-rail accidents. Many high hazard areas not covered by emergency hazmat. Includes recommendations for emergency preparedness and response programs.
19 Pages	formation, including the rupture of tank cars containing a pressurized liquid above its boiling point.	
	The report cites NTSB findings of deficiencies in oil safety regulatory compliance, including improper characterization and labeling, inadequate level of protection, poor route planning, inadequate response plans, outdated tank cars, insufficient placarding, "a lack of critical information about the characteristics of crude oil being transported." The report stated that there is a need to update federal environmental and emergency response plans.	
	The report describes the routes that rail cars of crude oil take in California and the sensitive areas through which they transit, including mountainous areas, densely populated areas, sensitive ecological areas and waterways.	
	Regarding response to a rail incident, the report states that the urban areas generally have good emergency hazmat coverage, but that there are no emergency hazmat teams near the high hazard rural areas in northern California.	
	Among the report's recommendations are: 1. Increase the Number of California Public Utilities Commission Rail Inspectors; 2. Improve Emergency Preparedness and Response Programs;	

DOCUMENT TITLE	DOCUMENT DESCRIPTION	KEY POINTS
	 a. Expand the Oil Spill Prevention & Response Program to Cover Inland Oil Spills b. Provide Additional Funding for Local Emergency Responders c. Review & Update of Local, State and Federal Emergency Response Plans d. Improve Emergency Response Capabilities e. Request Improved Guidance from United States Fire Administration on Resources Needed to Respond to Oil by Rail Incidents f. Increase Emergency Response Training 3. Request Improved Identifiers on Tank Placards for First Responders 4. Request Railroads to Provide Real-Time Shipment Information to Emergency Responders 5. Request Railroads Provide More Information to Affected Communities 6. Develop and Post Interactive Oil by Rail Map 7. Request DOT to Expedite Phase Out of Older, Riskier Tank Cars 8. Accelerate Implementation of New Accident Prevention Technology 9. Update California Public Utilities Commission Incident Reporting Requirements 10. Request Railroads Provide the State of California with Broader Accident and Injury Data 11. Ensure Compliance with Industry Voluntary Agreement 12. Ensure State Agencies Have Adequate Data 	
	http://www.caloes.ca.gov/HazardousMaterials/Pages/Oil-By-Rail.aspx	
	Fixed Facility	
California Interagency Working Group on Refinery Safety Improving Public and Worker	Following the catastrophic pipe failure at the Chevron refinery in Richmond on August 6, 2012, Governor Brown formed an Interagency Working Group on Refinery Safety to "identify means of improving refinery and agency performance." The Working Group consisted of participants from 13 agencies and departments, as well as the Governor's Office.	Report provides list of California refineries with local regulatory invitabilities a
Safety at Oil Refineries: Report of the Interagency	The document contains a description of common themes heard in stakeholder meetings,	jurisdictions, including CUPAs, Air Districts, and

DOCUMENT TITLE	DOCUMENT DESCRIPTION	KEY POINTS
Working Group on Refinery Safety	grouped by type of stakeholder – labor, community, industry, and State and local regulatory agencies. This document contains both internal and external investigative findings about the Chevron refinery incident.	CalOSHA units. Contains section on the major themes
February 2014 38 Pages	 The findings include: Multiple agencies have some responsibility for oversight of refineries. Some of the regulatory jurisdictions overlap. The refinery's requirements for reporting releases of hazardous materials needs to be more clearly defined. The local Area Plans do not specifically address the risks posed by refineries. The current air monitoring network does not provide real-time monitoring data. Multiple risk management regulations, including CalARP, RMP, PSM, and local ordinances cover refineries, but there are gaps in the coverage and in the enforcement mechanisms. "Regulatory agencies face multiple issues related to inspection and enforcement capabilities". "There are shortcomings in existing emergency alert systems, public education and timely dissemination of health and safety information related to refinery emissions." The document's recommendations include: Provide a central point in CalEPA to coordinate agencies' activities related to refineries. CalOES should clarify the reporting thresholds and should work with CUPAs on refinery-specific elements in the hazardous materials Area Plans. Calif. ARB should continue to work on toxic air contaminant monitoring that will provide useful real-time information. Existing regulations must be strengthened to cover the identified gaps, including six prevention strategies: (1) implement safer systems; (2) assess safety culture; (3) incorporate damage mechanism assessment into process hazard analyses; (4) perform complete root cause analyses after significant events; (5) account for 	in stakeholder perspectives, including labor, communities, industry, and regulatory agencies. • Contains a list of specific recommendations regarding refinery safety and response. • Speaks to specific planning issues. • The document includes a table with a useful format showing the responsible agencies, applicable regulations, and purpose of the regulatory requirements.

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	 human factors; and, (6) use structured methods to ensure safeguards in process hazard analyses. Strengthen Area Plans by adding refinery-specific elements for radio communications, unified command and joint operations centers, plans to protect people outside of the refineries, increased and improved drills and exercises, and preparation for airborne releases. Improve community education and public input in the planning process, increase public access to information, and enhance public information and protection during incidents. Establish Refinery Safety Forums for ongoing interaction among the stakeholders. 	
	This document can be found online at: http://www.calepa.ca.gov/publications/Reports/2014/RefineryRpt.pdf	

Additional Documents For Future Review

Plans

State of California Emergency Plan

California Hazardous Materials and Oil Emergency Function Annex EF -10

California LEPC Regional Plans for Regions 1, 2, 5, 6

Area Plans, as needed to understand their fit to the applicable LEPC Regional Plan

Federal Region IX Contingency Plan

Plans from neighboring states

Laws

California Emergency Services Act

California Disaster Assistance Act

42 United States Code, Title 42, Chapter 116 - Emergency Planning and Community Right-to-Know

Documents/Reports/Guidance

Congressional Research Service, "U.S. Rail Transportation of Crude Oil: Background and Issues for Congress," May 5, 2014.

National Response Team, Hazardous Materials Emergency Planning Guide

U.S. EPA, Off-site Consequences Analysis Guidance

FEMA/U.S.DOT/EPA, Handbook of Chemical Hazard Analysis Procedures

FEMA/U.S.DOT/EPA, Technical Guidance for Hazards Analysis

FEMA Comprehensive Preparedness Guide 101 (CPG-101)

The RAND Corporation June 2013 memo, "Refinery Process Safety Performance and Models of Government-Industry Relations"

Michael Wilson, UC Berkeley report, "Refinery Safety in California: Labor, Community and Fire Agency Views" March 27, 2013 Revised June 4, 2013

Databases

Pipeline and Hazardous Material Administration, "Incident Reports Database Search," Office of Hazardous Materials Safety, June 2014, https://hazmatonline.phmsa.dot.gov/IncidentReportsSearch/search.aspx

News Articles

The Atlantic, "Freight Train Derails and Explodes in Lac Mégantic, Quebec," July 8, 2013, http://www.theatlantic.com/infocus/2013/07/freight-train-derails-and-explodes-in-lac-megantic-quebec/100548/

McClatchyDC, "More oil spilled from trains in 2013 than previous 4 decades, federal data show," January 20, 2014. http://www.mcclatchydc.com/2014/01/20/215143/more-oil-spilled-from-trains-in.html