

Emergency Response Planning

Joint Region 5 & Region 7 Regional Response Team Meeting

Katy Mays

Emergency Response and Security Coordinator

Mid Continent Region



Agenda

About Enbridge

ER Plan Development

Mutual Aid Agreements

ER Mapping

Equipment / Training

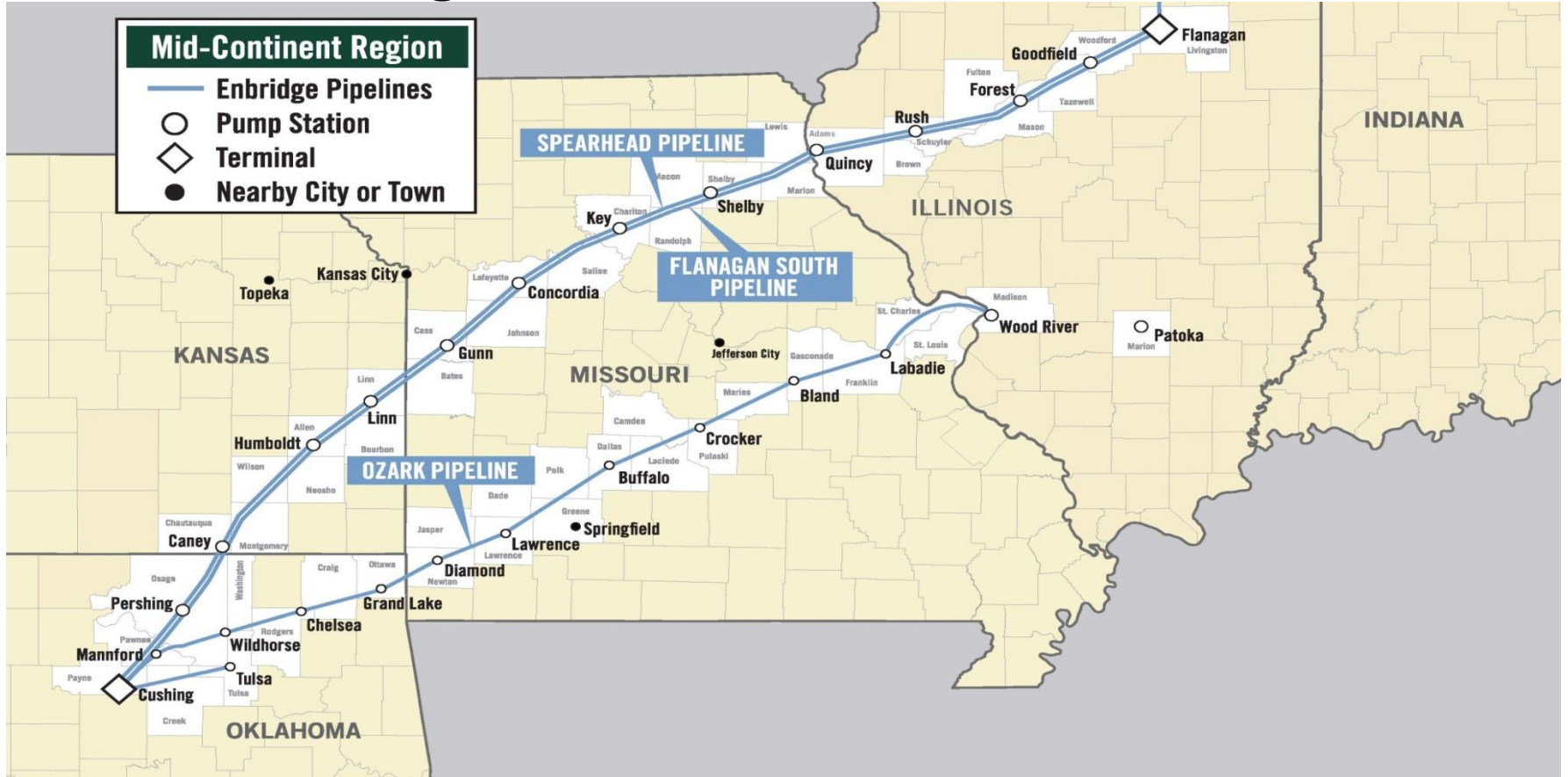
First Responder Outreach

Enbridge: A Vital Link to Energy Supply



- Leader in the safe and reliable delivery of energy in North America
- Operates **world's longest liquids pipeline** and Canada's largest natural gas distribution company
- Has been delivering energy with integrity **since 1949**
- **50,000 miles of pipelines**
- Delivers **2.6 million barrels per day (bpd)** of crude and liquid petroleum
- Growing interests in renewable energy, including wind and solar, geothermal and hybrid cells.
- Enbridge's workforce increased from 6,500 in 2011 to **11,000 in 2014**

Mid Continent Region



Emergency Management Program

Enbridge's Four Pillars of Emergency & Security Management



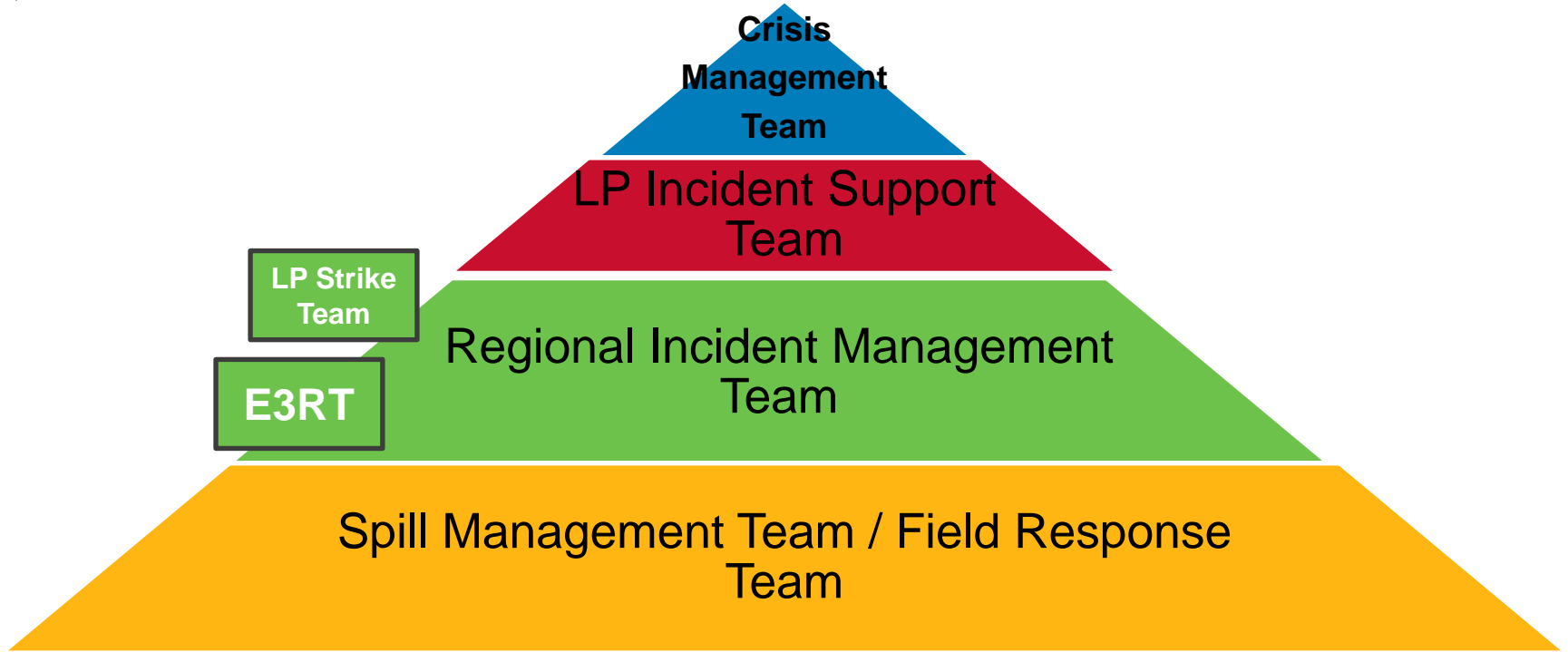
ER Plans

How we develop
plans across
Enbridge



Background

Enbridge LP Response Overview



Background

Spill Management Team / Field Response Team

Guiding Plans

- Integrated Contingency Plan
- Emergency Response Action Plan
- Tactical Response Plans/Control Point Tactical Mapping

Resources

- Emergency Response Guide
- Inland Spill Response Tactics Guide

Actions taken by Enbridge responders at an incident scene to assess the situation and safely mitigate (or address) the problem and its impacts.

Spill Management Team / Field Response Team

Regional Incident Management Team / LP Strike Team

Guiding Plans

- Integrated Contingency Plan

Resources

- IAP Software
- IMH Handbook

Actions taken at and/or away from the incident scene to support tactical response operations, facilitate planning, and address the immediate concerns of the public and government agencies.

LP Strike Team

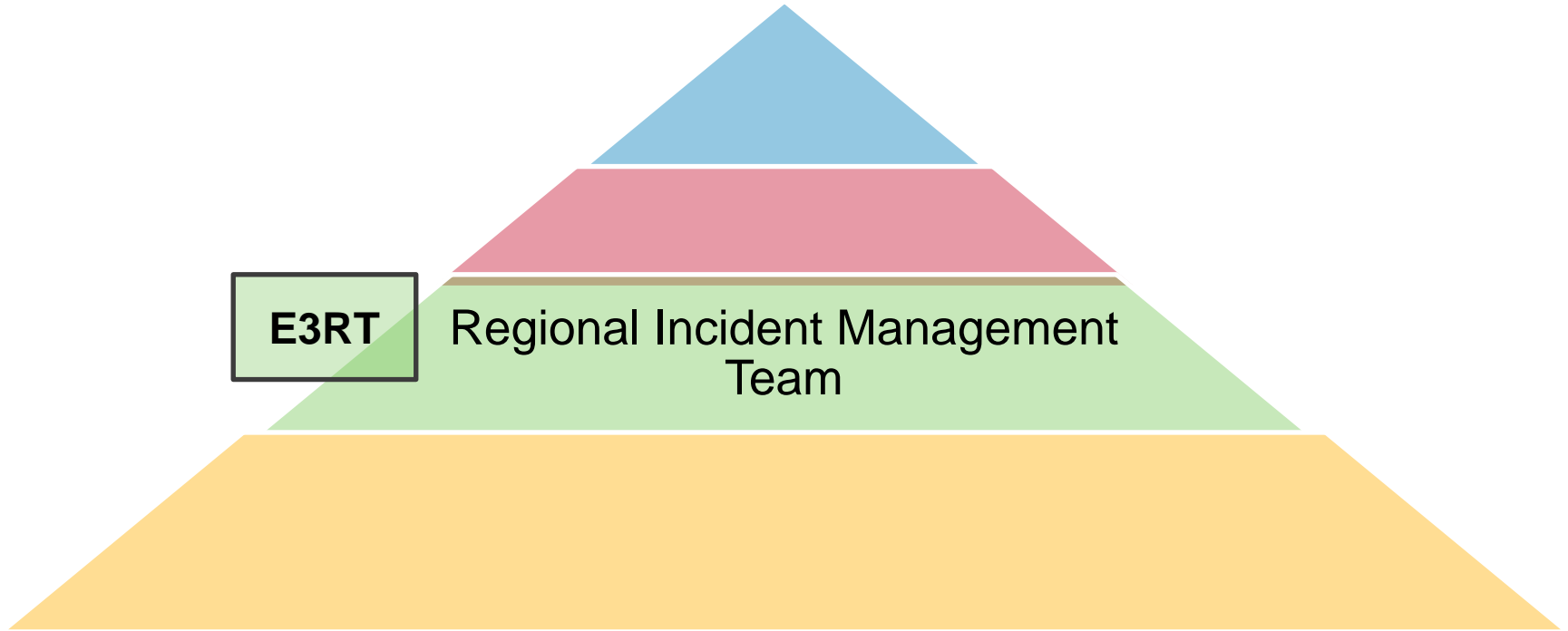
Regional Incident Management Team

LP Strike Team

- 1 in US, 1 in Canada, separate from E3RT
- Strike Team supports IMT
- Works for IMT IC, cold zone only
- Fill a role(s) and/or mentor IMT members,
- Deploy en masse, then “thin out”



Enbridge Enterprise Emergency Response Team (E3RT)



Enbridge Enterprise Emergency Response Team (E3RT)

- Cross-business unit team of individuals
- Support (ICS roles in IMT) to significant incident when requested by business
- Unit leadership
- Activated through E3RT Team Leads



Background

LP Incident Support Team

Guiding Plans

LP Incident Support Plan

LP Incident
Support Team

Actions taken at and/or away from the incident scene to support the IMT, facilitate planning, and manage business recovery projects.

Background

Crisis Management Team

Guiding Plans

- Enterprise Crisis Management Plan

Crisis Management Team

Actions taken away from the scene to support and assist the IST and IMT in planning, business recovery projects and address the implications of the problem and its potential on the Company's viability, operability and credibility

Integrated Contingency Plan

Integrated Contingency Plan

Core

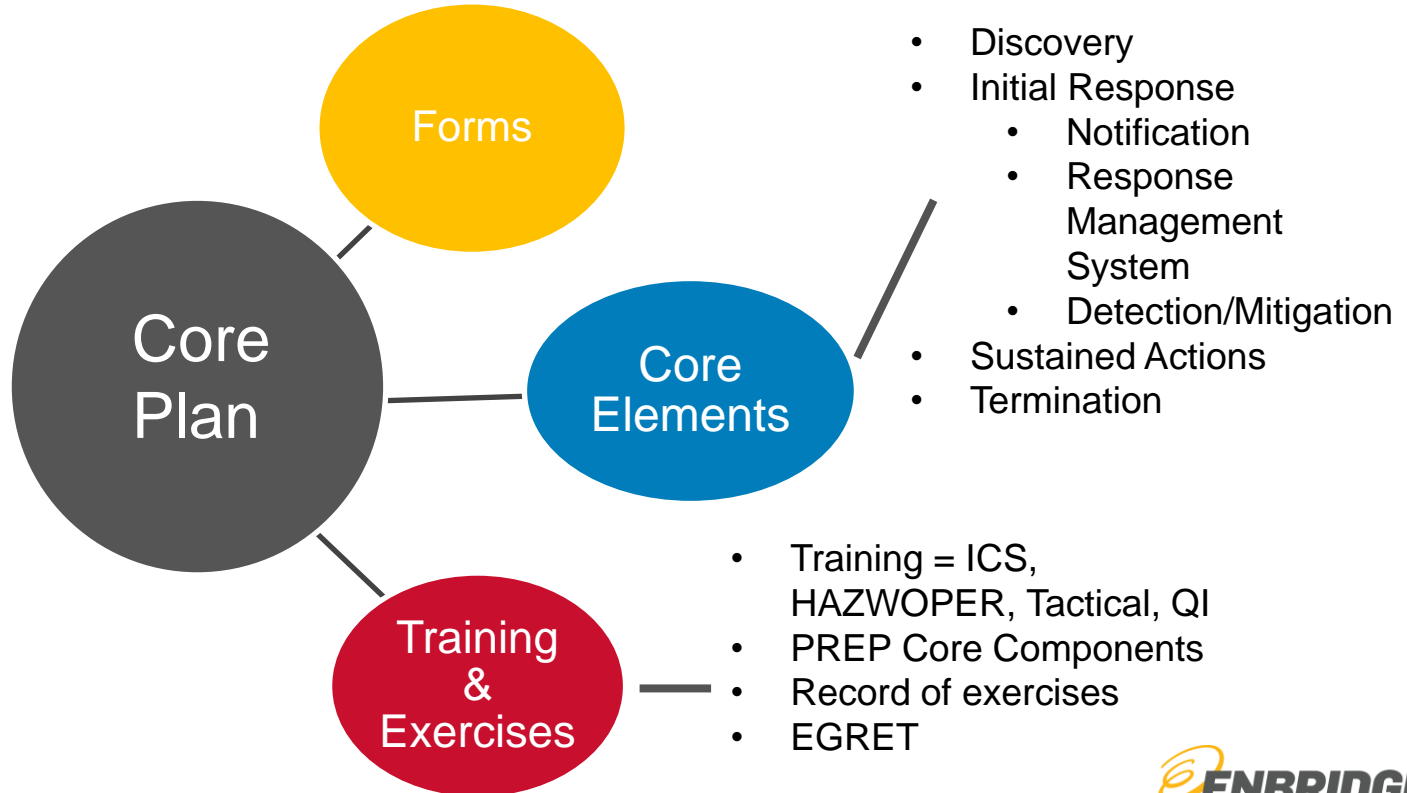
- US Regions

Annexes

- Region Specific

Integrated Contingency Plan

Core Plan



Integrated Contingency Plan

Annexes 1-6

1

- Facility & Locality Information

2

- Notification Procedures

3

- Environmentally Sensitive Area Information

4

- Regulatory Cross Reference Table

5

- Administration

6

- Emergency Response Action Plan (ERAP)

Emergency Response Action Plan

Emergency Response Action Plan

ERAP

ERAP

- Response Zone Description
- Initial Response
- Response Equipment
- Evacuation
- Mitigation Efforts
- Forms



ENBRIDGE
Emergency Response Action Plan
Region Response Zone

The Response Group Develops

Emergency Response Guide First Responder		Pipeline Release
<p>SAFETY</p> <ul style="list-style-type: none"> Your safety first and then the safety of others Stay out of the hazard area Establishing incident perimeter (down wind, up hill, up stream) Determine the immediate hot zone Evacuate the immediate hot zone Evacuate the secondary area Do not enter the immediate area Ask others to help only entry into the area For the scene, ask emergency responders to help deny entry <p>NOTIFICATIONS</p> <ul style="list-style-type: none"> Contact your supervisor Call 911 Call 911 if ambulance, police or the Dept. is desired or needed Contact local CORC (Notification Section of the Plan) Follow Notification Procedures (Notification Section of this Plan) <p>PROTECTIVE EQUIPMENT</p> <ul style="list-style-type: none"> Evacuate proper levels of PPE Evacuate PPE in line with One Safety and Health Plan (OSHP) <p>CONTAINMENT & CONTROL</p> <ul style="list-style-type: none"> Containment & Control Strategy should be developed within the Unified SAP process-flow ACP Operations Section Chief oversees containment & control Facility equipment CORC's work under the Operations Section and should not duplicate <p>PROTECTIVE ACTIONS</p> <ul style="list-style-type: none"> Work with Region to assess impact on water intakes Working practices, public notification sheet & sensitive area Procedural action tactical deployment should be part of the Unified SAP 	<p>COMMAND MANAGEMENT</p> <ul style="list-style-type: none"> Assume the role of Incident Commander Make an announcement to all on the scene that you have assumed command Establish a Unified Command Post (up wind, up hill and up stream of the incident in the cold zone) Establish a Unified Incident Response up wind, up hill and up stream of the incident in the cold zone Design emergency CIS protocols as necessary Identify and contact responding Agencies as they arrive at the scene Control Safety Observation and compliance in the Safety Plan <p>IDENTIFICATION AND ASSESSMENT</p> <ul style="list-style-type: none"> Continue to evaluate the hot zone and adjust accordingly Establish and maintain exclusion zones Ensure safe Reason to determine extent of impact on water, air, soil, and other sensitive resources <p>ACTION PLANNING</p> <ul style="list-style-type: none"> Complete an ICS Form 201 and Incident Action Plan 	<p>INITIAL EMERGENCY RESPONSE</p>  <p>TACTICAL EMERGENCY RESPONSE</p>  <p>INITIAL DECONTAMINATION FORMS THAT MAY BE UTILIZED</p> <ul style="list-style-type: none"> Incident Response Form 1 (Incident) ICS Form 201 (Incident Action Plan) ICS Form 204 (Incident Log) ICS Form 205 (Incident Report) ICS Form 206 (Incident Report) ICS Form 207 (Incident Report) ICS Form 208 (Incident Report) ICS Form 209 (Incident Report) ICS Form 210 (Incident Report) ICS Form 211 (Incident Report) ICS Form 212 (Incident Report) ICS Form 213 (Incident Report) ICS Form 214 (Incident Report) ICS Form 215 (Incident Report) ICS Form 216 (Incident Report) ICS Form 217 (Incident Report) ICS Form 218 (Incident Report) ICS Form 219 (Incident Report) ICS Form 220 (Incident Report) <p>RESERVED AIRBORNE GROUP REFERENCE PAGES</p> <ul style="list-style-type: none"> Section 1000 & 1001 Section 1002 & 1003 Section 1004 & 1005 Section 1006 & 1007 Section 1008 & 1009 Section 1010 & 1011 Section 1012 & 1013 Section 1014 & 1015 Section 1016 & 1017 Section 1018 & 1019 Section 1020 & 1021 Section 1022 & 1023 Section 1024 & 1025 Section 1026 & 1027 Section 1028 & 1029 Section 1030 & 1031 Section 1032 & 1033 Section 1034 & 1035 Section 1036 & 1037 Section 1038 & 1039 Section 1040 & 1041 Section 1042 & 1043 Section 1044 & 1045 Section 1046 & 1047 Section 1048 & 1049 Section 1050 & 1051 Section 1052 & 1053 Section 1054 & 1055 Section 1056 & 1057 Section 1058 & 1059 Section 1060 & 1061 Section 1062 & 1063 Section 1064 & 1065 Section 1066 & 1067 Section 1068 & 1069 Section 1070 & 1071 Section 1072 & 1073 Section 1074 & 1075 Section 1076 & 1077 Section 1078 & 1079 Section 1080 & 1081 Section 1082 & 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1883 Section 1884 & 1885 Section 1886 & 1887 Section 1888 & 1889 Section 1890 & 1891 Section 1892 & 1893 Section 1894 & 1895 Section 1896 & 1897 Section 1898 & 1899 Section 1900 & 1901 Section 1902 & 1903 Section 1904 & 1905 Section 1906 & 1907 Section 1908 & 1909 Section 1910 & 1911 Section 1912 & 1913 Section 1914 & 1915 Section 1916 & 1917 Section 1918 & 1919 Section 1920 & 1921 Section 1922 & 1923 Section 1924 & 1925 Section 1926 & 1927 Section 1928 & 1929 Section 1930 & 1931 Section 1932 & 1933 Section 1934 & 1935 Section 1936 & 1937 Section 1938 & 1939 Section 1940 & 1941 Section 1942 & 1943 Section 1944 & 1945 Section 1946 & 1947 Section 1948 & 1949 Section 1950 & 1951 Section 1952 & 1953 Section 1954 & 1955 Section 1956 & 1957 Section 1958 & 1959 Section 1960 & 1961 Section 1962 & 1963 Section 1964 & 1965 Section 1966 & 1967 Section 1968 & 1969 Section 1970 & 1971 Section 1972 & 1973 Section 1974 & 1975 Section 1976 & 1977 Section 1978 & 1979 Section 1980 & 1981 Section 1982 & 1983 Section 1984 & 1985 Section 1986 & 1987 Section 1988 & 1989 Section 1990 & 1991 Section 1992 & 1993 Section 1994 & 1995 Section 1996 & 1997 Section 1998 & 1999 Section 2000 & 2001 Section 2002 & 2003 Section 2004 & 2005 Section 2006 & 2007 Section 2008 & 2009 Section 2010 & 2011 Section 2012 & 2013 Section 2014 & 2015 Section 2016 & 2017 Section 2018 & 2019 Section 2020 & 2021 Section 2022 & 2023 Section 2024 & 2025 Section 2026 & 2027 Section 2028 & 2029 Section 2030 & 2031 Section 2032 & 2033 Section 2034 & 2035 Section 2036 & 2037 Section 2038 & 2039 Section 2040 & 2041 Section 2042 & 2043 Section 2044 & 2045 Section 2046 & 2047 Section 2048 & 2049 Section 2050 & 2051 Section 2052 & 2053 Section 2054 & 2055 Section 2056 & 2057 Section 2058 & 2059 Section 2060 & 2061 Section 2062 & 2063 Section 2064 & 2065 Section 2066 & 2067 Section 2068 & 2069 Section 2070 & 2071 Section 2072 & 2073 Section 2074 & 2075 Section 2076 & 2077 Section 2078 & 2079 Section 2080

Mutual Aid Agreements

Safety Alliance of Cushing

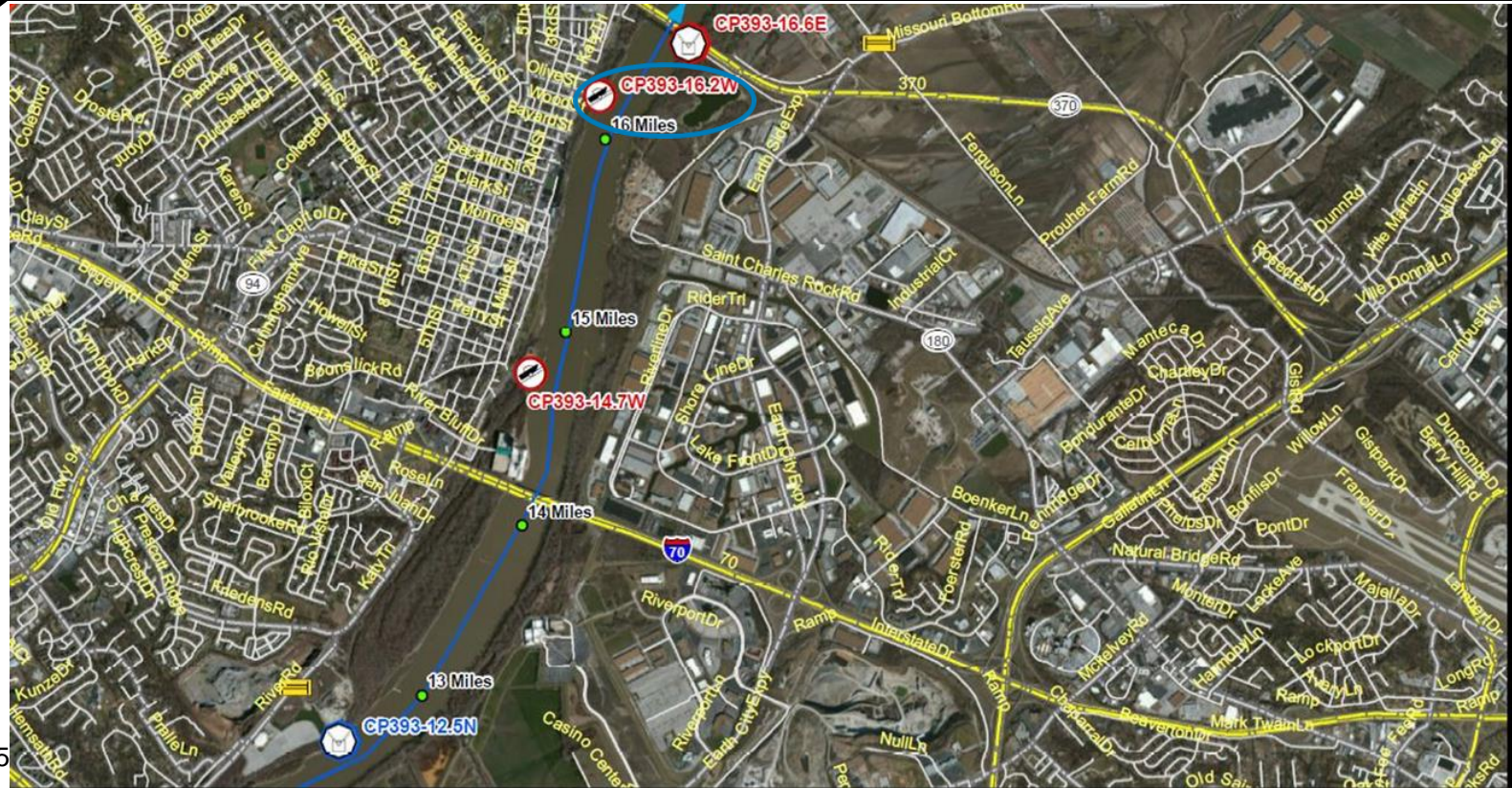
Mutual Aid Agreement

- Established in 2001
- 14 members – Oil Storage Terminals
- Monthly Meetings
- Response agreement - to assist with appropriate equipment, material and/ or personnel



ER Mapping

Control Point Mapping



Upstream and Downstream Valve Sites:	392.59-51-V (motorized) [R] 393.92-51-V (motorized) [R]	GPS (NADA 83) Decimal/Degree:	Latitude: Longitude:	38.79311° -90.47381°
Upstream Distance to Pipeline:	16.2 miles	Upstream Control Point:		CP393-14.7W
Access Requirements:	Public access at Blanchette Landing	Downstream Control Point:		CP393-16.6E
Objective (Control Point/Boat Launch/ Staging):	Primary – Control Point, Staging Area, Boat Launch			
Resources at Risk:	Missouri-American SW DW intake at CP393-23.05, 6.8 miles downstream.			
Watercourse Description:	The channel is approximately 1,200' wide, >10' deep and is navigable. River banks are steep and consisting of muck, weeds, logs, and some large rocks near landing. Medium grade banks. Average velocity is ~4 ft/s.			
Staging Area Description/Boat Launch:	Staging area is a 175' x 175' paved parking lot with ample turnaround room. During the field visit it was moderately busy. The boat launch is concrete and a two lane.			
Safety Concerns and Communications:	Care should be taken when launching boat as this river is very fast moving. Also, pedestrian vehicles may make it difficult to stage equipment. Cell Coverage: Verizon – 3 Bars			
Implementation:	Visual assessment for new hazards and water conditions. Extend containment boom out ~500 feet from shore using anchors to secure the southeast end. Use sorbent boom along western bank as necessary. Clear debris away from launch if need and use launch to deploy response vessels. Stage equipment in the large asphalt parking lot adjacent to the launch. Park the vacuum truck on the launch.			
Closest Equipment Cache to this Control Point:	The nearest OSRO is Environmental Restoration – 24.1 miles (27 minute travel time).			
Comments:	This control point boat launch is well maintained and is in good shape, free of debris unlike CP393-14.7W.			
Required Contact Numbers:	Nearest OSRO: Environmental Restoration (24.1 miles) – 27 Minutes – Telephone: (636) 227-7477 Future Environmental Inc. (285 miles) – 4 Hours 32 Minutes - Telephone: (708) 479-6900 Nearest Manned Enbridge Facility: Wood River (27.0 miles) – 32 Minutes - Telephone: (618) 254-3903			

Date Strategy Updated:	
October 21, 2014	
Date Strategy Site Visited:	
August 24, 2014	

Directions: From Highway 141, head northwest on Interstate 70 W for 2.0 miles. Take Exit 229B for I-70 Loop N/Fifth St and turn right onto S 5th Street. Continue for 1.2 miles then turn right onto Clark St. After 0.2 miles turn left onto N 2nd St and continue for 0.6 miles. Turn right onto Olive Street to get to control point at Eco Park.

Recommended Equipment	
Quantity	Description
1,400'	18" Booms
1,010'	Sorbent Boom
5	Boom Anchors
300'	½" Rope
1	Skimmer
1	12' Jon Boat
1	Vacuum truck
1	Portable Tank

Recommended Personnel	
Number	Description
4	Shoreline Personnel
1	Supervisor
1	Vac. Truck Operator
1	Safety Personnel
1	Jon Boat Operator



Date Strategy Updated:
 October 21, 2014
Date Strategy Site Visited:
 August 24, 2014





Looking East – Entrance to Launch/Staging Area



Looking East – Down concrete boat launch



Looking Southeast – Large Staging Area



Looking Southeast – Boat launch/turnaround

ER Equipment

Spill Response Equipment



Spill Response Equipment

Submerged Oil Trailer



ER Training




Emergency Response Training

ER Training Matrix


	Duration (Hours)	Intervention Type	Target Days (from employment start date)	Recertification Period	All Regional Employees	(ER) Incident Management Team ¹	Terminal Field Staff ²	Spill Management Team ³	Qualified Individual/Incident Commander ⁴	Cushing Region - Administrative Personnel (ER)	Cushing Region - Catholic Protection (ER)	Cushing Region - Crossing Coordinators (ER)	Cushing Region - Engineer (ER)	Cushing Region - Gauge/Operators (ER)	Cushing Region - Maintenance Technician (ER)	Cushing Region - Manager (ER)	Cushing Region - PLM (ER)	Cushing Region - Safety Coordinator (ER)	Cushing Region - Supervisor/Coordinator 24 Hazwoper (ER)	Cushing Region - Supervisor/Coordinator 40-Hazwoper (ER)	Cushing Region - Training Coordinator (ER)	
(ER) Enbridge Responder Awareness	1	eCourse	365 Days	3 Years							M	M		M	M	M	M	M	M	M	M	
Incident Management System Awareness	1	eCourse	365 Days	3 Years	M																	
(ER) HAZWOPER 24hrs	24	Instructor Led	365 Days	0 Years						M			M			M				M		
(ER) HAZWOPER 40hrs	40	Instructor Led	365 Days	0 Years								M		M	M		M	M		M		M
(ER) HAZWOPER Refresher 8hrs	8	Instructor Led	730 Days	1 Years						M	M		M	M	M	M	M	M	M	M		M
(ER) ICS 100/200	8	Instructor Led	0 Days	0 Years	M																	
(ER) ICS 300	16	Instructor Led	0 Days	0 Years		M																
(ER) ICS 320	24	Instructor Led	0 Years	0 Years																		
(ER) Qualified Individual/IC Training	4	Instructor Led	0 Days	0 Years					M													
(ER) Basic Boat Operations	4	eCourse	0 Days	0 Years				M														
(ER) Boat Handling Operations	8	Instructor Led	365 Days	3 Years				M														
(ER) Boom Deployment	8	Instructor Led	365 Days	3 Years				M														
(ER) Skimmer Operations	8	Instructor Led	365 Days	3 Years				M														
(ER) Tank Fire Awareness	8	Instructor Led	365 Days	3 Years		M																
(ER) Inland Oil Spill Response	24-40	Instructor Led	0 Days	0 Years				O														
(ER)HAZWOPER On-Scene Incident Commander	8	Instructor Led	0 Days	0 Years																		

First Responder Outreach

BETA TESTING SITE

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Welcome to the Enbridge and Vector Pipeline Emergency Responder Education Program

Thank you for your interest in the Enbridge and Vector Pipeline Emergency Responder Education Program. This online education program will provide emergency responders in our areas of operation with the information needed to safely and effectively respond to a pipeline emergency. The program is free, and you can complete it all at once or at your own pace.

The content in this course is based on the "Pipeline Emergencies" program, which is an industry-leading pipeline emergency response training program developed by the National Association of State Fire Marshals. The program also includes information specific to the Enbridge and Vector Pipeline systems.

In this course, you will learn:

- The basics of gas and liquids pipeline operations
- The hazards of the products transported by Enbridge and Vector Pipeline
- Pipeline emergency response tactics
- How to apply the information to real-life situations


Training Login

Login with your username and password and begin your training online.

USERNAME

PASSWORD

[Forgot your password?](#)





Q & A