



Western Canadian Spill Services Ltd.

**WCSS
OIL SPILL CO-OPERATIVE
TRAINING EXERCISE REPORT**

Oil Spill Co-Operative:	U
Oil Spill Co-Op Chairman:	Jamie Mowbray (Enbridge Pipeline)
Exercise Date:	Thursday – October 6, 2011
Type of Exercise:	Equipment Deployment
Location of Exercise:	Hardisty Community Centre Iron Creek
LSD/Sec/Twp/Rge/Mer:	Iron Creek SW22-43-9 W4M
Incident Commander:	Jamie Mowbray
Host Company:	Enbridge Pipeline

EXERCISE OBJECTIVES

The objectives of the exercise were to: (check applicable ones)		Objectives Met	
		Yes	No
1	Supply theoretical training (classroom)	X	
2	Evaluate deployment methods (hands-on training)	X	
3	Evaluate safety procedures	X	
4	Evaluate boat handling and operations		
5	Evaluate response capabilities		
6	Evaluate communications		
7	Evaluate Control Point		
8	Evaluate Co-op equipment - Dryland exercise	X	
9	Evaluate WCSS equipment	X	
10	Evaluate new equipment – Watergate Dam/Training Trailer/Turner Valley Gates/Shallow Creek Boom	X	
11	Other (please specify)		



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EXERCISE REPORT - CHRONOLOGICAL

Time	Event and Description	Problems
07:15	Setup/Registration – Hardisty Community Centre	
09:15	Training Trailer arrives at Centre	
	Opening Remarks/Introductions/Area U Overview (Jamie Mowbray – Area U Chairman)	
09:30	ERCB Regulatory Presentation (Brent McGarry)	
09:50	WCSS Overview/Training Manual Review (Al McFadyen)	
10:35	Coffee Break	
10:55	Exercise Overview/Crew Selection (Jamie Mowbray)	
11:20	Luncheon – provided at Centre	
	Travel to equipment deployment site – Iron Creek	
12:30	Training Trailer arrives on site	
	Portable toilets arrive on site	
12 :40	Captains/Training Coordinators review site – deployment strategy	
	ICS/Strategy Boards completed	
	Safety Briefing – Safety Officer (Paul Clark)	
12:50	Begin to unload equipment from Training Trailer to creek	
	Vests distributed	
	Begin making strawboom (Al McFadyen)	
	Review of watergate boom deployment (Len Brown)	
13:00	Deploy watergate dam/turner valley gates into creek	Minimal water for dam
	Once strawboom is completed taken over to creek site	
13:20	Shallow creek boom deployed	
	Ideally the watergate dam needs 1-3 kms/water flow in order to work effectively. Water depth was also a factor as it was quite low	
13:35	Takedown – creek equipment back to trailer Set up of moving water dryland demo – excellent walk through (Len)	
14:20	Takedown – all equipment returned to trailer	
14:35	Debriefing/doorprize draws/distribution of WCSS attendance cards	
14:45	Exercise completed	



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CLASSROOM SESSION

Opening Remarks/Introductions/Area U Overview (Jamie Mowbray – Area U Chairman)

ERCB Regulatory Presentation (Brent McGarry)

WCSS Overview/Training Manual Review (Al McFadyen)

Exercise Overview/Crew Selection (Jamie Mowbray)



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SAFETY

WCSS Oil Spill Cooperative Exercise Hazard Assessment

1. Equipment

Task/Activity

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Parking | <input checked="" type="checkbox"/> Equipment Spotting | <input checked="" type="checkbox"/> Loading/Unloading |
| <input checked="" type="checkbox"/> Staging | <input checked="" type="checkbox"/> Dryland Equipment Deployment | <input type="checkbox"/> Helicopter Use |
| <input type="checkbox"/> Other _____ | | |

Hazard (high)

- | | | |
|---|---------------------------------------|---|
| <input type="checkbox"/> Personnel Injuries | <input type="checkbox"/> Health Issue | <input type="checkbox"/> Equipment Damage |
| <input type="checkbox"/> Other _____ | | |

Mitigation/Safety Controls

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> Health Screening | <input type="checkbox"/> Health Restrictions | <input checked="" type="checkbox"/> Equipment Orientation |
| <input checked="" type="checkbox"/> Safety Meeting | <input checked="" type="checkbox"/> PPE | <input checked="" type="checkbox"/> Crew Member Assignment |
| <input checked="" type="checkbox"/> Track Attendees | <input type="checkbox"/> Warning Signs | <input type="checkbox"/> Barriers |
| <input type="checkbox"/> Identify Restricted Areas | <input type="checkbox"/> Identify Work Zones | <input type="checkbox"/> Buddy System |
| <input checked="" type="checkbox"/> Emergency Signal | <input checked="" type="checkbox"/> Muster Station | <input type="checkbox"/> First Aid |
| <input type="checkbox"/> EMS | <input type="checkbox"/> Communications Plan | <input type="checkbox"/> Weather Tracking |
| <input type="checkbox"/> Weather Restrictions | <input type="checkbox"/> Warming Tent/Facility | <input checked="" type="checkbox"/> Sanitation |
| <input checked="" type="checkbox"/> Water/Food | <input checked="" type="checkbox"/> Wildlife Identification | <input type="checkbox"/> Wildlife Strategy |
| <input type="checkbox"/> Identify Equipment Deployment Strategy | | |
| <input type="checkbox"/> Other _____ | | |

Note: Incident Commander/Creek Crew/Safety Officer discussed use of PFD's, water was shallow enough that they were not required.



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2. Working Along Shoreline

Task/Activity

- Transporting Equipment Loading Boats Deploying Equipment

Hazard (medium/high)

- Personnel Injuries Equipment Damage Utilities Hit
 Other _____

Mitigation/Safety Controls

- Health Screening Health Restrictions Equipment Orientation
 Safety Meeting PPE Crew Member Assignment
 Track Attendees Warning Signs Barriers
 Identify Restricted Areas Identify Work Zones Buddy System
 Emergency Signal Muster Station First Aid
 EMS Communications Plan Weather Tracking
 Weather Restrictions Warming Tent/Facility Sanitation
 Water/Food Wildlife Identification Wildlife Strategy
 Safety Boat Shoreline Safety Station Crew Briefing
 Identify Equipment Deployment Strategy Identify Underground Facilities
 Waist Belt on Chest Waders Other _____



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3. Boat Operation – no boats required

Task/Activity

- | | | |
|--|--------------------------------------|------------------------------------|
| <input type="checkbox"/> Equipment Loading | <input type="checkbox"/> Launching | <input type="checkbox"/> Operating |
| <input type="checkbox"/> Private Vessels | <input type="checkbox"/> Other _____ | |

Hazard (high)

- | | | |
|---|--|---|
| <input type="checkbox"/> Personnel Injuries | <input type="checkbox"/> Public Injuries | <input type="checkbox"/> Equipment Damage |
|---|--|---|

Mitigation/Safety Controls

- | | | |
|---|---|--|
| <input type="checkbox"/> Health Screening | <input type="checkbox"/> Health Restrictions | <input type="checkbox"/> Equipment Orientation |
| <input type="checkbox"/> Safety Meeting | <input type="checkbox"/> PPE | <input type="checkbox"/> Crew Member Assignment |
| <input type="checkbox"/> Track Attendees | <input type="checkbox"/> Warning Signs | <input type="checkbox"/> Barriers |
| <input type="checkbox"/> Identify Restricted Areas | <input type="checkbox"/> Identify Work Zones | <input type="checkbox"/> Buddy System |
| <input type="checkbox"/> Emergency Signal | <input type="checkbox"/> Muster Station | <input type="checkbox"/> First Aid |
| <input type="checkbox"/> EMS | <input type="checkbox"/> Communications Plan | <input type="checkbox"/> Weather Tracking |
| <input type="checkbox"/> Weather Restrictions | <input type="checkbox"/> Warming Tent/Facility | <input type="checkbox"/> Sanitation |
| <input type="checkbox"/> Water/Food | <input type="checkbox"/> Wildlife Identification | <input type="checkbox"/> Wildlife Strategy |
| <input type="checkbox"/> Operator Certification | <input type="checkbox"/> PFD | <input type="checkbox"/> Crew Briefings |
| <input type="checkbox"/> Equipment Service Checks | <input type="checkbox"/> Identify Roles | <input type="checkbox"/> Identify Traffic Patterns |
| <input type="checkbox"/> Set Distances for Operations | <input type="checkbox"/> Safety Boat | <input type="checkbox"/> Up & Downstream Bouys |
| <input type="checkbox"/> Up & Downstream Signage | <input type="checkbox"/> Identify Equipment Deployment Strategy | |
| <input type="checkbox"/> Other _____ | | |



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DEBRIEFING – EXERCISE DEPLOYMENT

Safety:
What safety issues were not identified or could be managed more effectively? All safety issues/WCSS reports were identified and completed by Safety Officer. Hardisty Hospital was notified beforehand – location/time of exercise
Equipment Deployment:
How could we have improved the equipment deployment portion of the exercise?
Equipment Deficiencies:
What equipment deficiencies did you see? See below
Communications:
How can we improve communications? (ie: was the sound acceptable? were directions clear?)
Training Effectiveness / Exercise Improvement:
How can we make these exercises more effective? This technique of training; dividing attendees into 3 or more groups/containment and recovery equipment practices is proving to be very effective. Less standby personnel, more hands on. Excellent dryland training session
Lessons Learned:
What were the lessons learned? Various new containment equipment was deployed/how it works.
Other Types of Training:
What other types of co-op exercises would you like to see?
Other Equipment Needed in this Area:
What additional equipment would be beneficial to this co-op area?



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Spill Medium:

Was Spill Medium was used for the exercise?			No	
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RECOMMENDATIONS - WCSS EQUIPMENT:	
Equipment Used: Training Trailer Watergate Dam/Turner Valley Gates	Make sure that equipment is returned to correct spot in trailer Have a drum skimmer in unit – areas where pedco is not effective

Equipment Deficiencies	Follow-Up (Identify Responsibilities)
Wind Sock – mount on trailer	
New ID vests – large print	

Debriefing Suggestions:	None to report
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ATTENDANCE:

No. of Participants	78
Member Companies	51
% of Membership	80%



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AREA U - COMPANIES IN ATTENDANCE – OCTOBER 6, 2011

COMPANY NAME	REPRESENTATIVE
Advantage Oil & Gas Ltd.	A.Heck
	C.Praski
Apache Canada Corporation	S.Baldwin
	S.Kohlman
	B.Savage
	B.Seyward
	N.Thulien
	H.Walgenbach
ARC Resources Ltd.	J.Golby
Baytex Energy Ltd.	T.Job
Blackhawk Resource Operating Corporation	A.Heck
Black Shire Energy Inc.	J.Kirzinger
Bonavista Petroleum Ltd.	J.Dunsmore
	T.Tansoschyk
CCS Corporation	L.Beblow
	R.Thomson



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Canadian Natural Resources Ltd.	S.Anderson
	A.Heck
Cansearch Resources Ltd.	P.Balmer
Celtic Exploration Ltd.	S.Anderson
Coastal Resources Ltd.	K.Brost
ConocoPhillips Canada Ltd.	D.Hansen
Crescent Point Energy Inc.	N.Lindquist
	G.Penmann
	B.Sontland
Cutpick Energy Inc.	P.Clark
	M.Tschaja
Devon Canada Corporation	P.Balmer
Direct Energy Resources	R.Maginn
	C.Rude
Enbridge Pipelines Inc.	J.Mowbray
	A.Watkins
Energy Resources Conservation Board (ERCB)	B.McGarry
	Olchowecki



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Envirotech Nisku	L.Brown
Equal Energy Ltd.	M.Nelson
	D.Scammell
	C.Szeszorak
FairWest Energy Corporation	K.Brost
Flint Hills Resources Canada LP	S.Sieben
Gear Energy Ltd.	A.Heck
Gibson Energy	D.Fisher
	R.Granger
	K.Stephen
	R.Shott
	R.Tebbe
	S.Wagner
	J.Watkins
Hardisty Caverns (Enbridge PPL)	J.Mowbray
Harvest Operations Corporation	M.Monk
	G.Roadhouse
	S.Robinson
	W.Sarasin
	R.Sather
	J.Williams



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Husky Oil Operations Ltd.	D.Baumgartner
	M.Cook
	S.Fuller
	W.Grunow
	J.Melin
Interpipeline Fund	T.Abel
	C.Kuehn
Kinder Morgan Canada Inc.	J.Brennan
	D.Hartley
	D.Seib
Lonepine Resources	G.Grococh
	K.Koch
Longview	C.Praski
NAL Resources Limited	B.Schumacher
Newalta Corporation	K.Humenuik
	Allan L.
New Century Petroleum Corporation	B.Schumacher
Northern Patriot	D.Hansen

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Nuvista Resources Ltd.	R.Froland
PennWest Energy Trust	G.Knight
	E.Resch
	M.Yake
PetroBakken Energy Ltd.	D.Byler
Rife Resources Ltd.	G.Hryhoriu
Sageland Resources Ltd.	J.Marchbank
Signalta Resources Limited	B.Laurenceson
Tallgrass Energy Corporation	B.Borsun
TransCanada Pipelines	G.Trask
WCSS	L.Brown
	A.McFadyen
Westdrum Energy	B.Borsun
Westfire Energy Ltd.	T.Ekman
Zargon Oil & Gas	B.Hoffman

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