Excellence in Environmental & Emergency Solutions

NRC Corporate Overview

Regional Response Team 5 (RRT5)
Cleveland, OH
November 5-6, 2013
NRC Customer Base

Servicing:
- Petroleum and Dry Cargo Shipping
- Oil Refining, Marketing & Distribution
- Oil & Gas Exploration and Production
- Pipeline Operators
- Power Generating
- Aviation and Rail Industries
- Government & Military via B.O.A
NRC Operating Theatres
A Few of our Clients
NRC at a Glance...

- Highest Level of USCG OSRO Classification
- Largest Commercial Equipment Stockpiles
- Offshore Marine Fleet
- Marine Resource Network for Additional Offshore Assets
- Vast Independent Contractor Network (ICN)
- Contractual Agreements with all ICNs
- Immediate Access to Contracted Response Equipment
- Extensive ER & Project Management Experience
- Logistical Support Services
- Equipment Procurement Services
NRC’s Role in Support to Client Events

NRC Response for Emergency Response Events:

- Prolonged operations for ER events
- NRC – Primary OSRO for Responsible Party (Client)
- Management of multiple ICNs
- NRC owned and contracted resources used on the responses
- Equipment stockpiles from within response region
NRC responds to both **marine** and **land-based** oil spill incidents, adapting the response to meet specific operational requirements.

**Specialized Offshore Equipment**

- Oil Spill Response Vessels (OSRV)
- Oil Spill Response Barges (OSRB)
- Ocean and Inland Boom
- Large Capacity Skimming Systems
- Floating and/or Deck Storage
- Dispersant & Spray Systems
- Fire Boom
- Temporary storage
Onshore Support Services

- Incident Response
- Incident Management
- Recovery & Clean-up
- On-Site Incident Management Team Support
- Logistical Support
- Waste Management
- Site Remediation
- Equipment Procurement/Sales
NRC Response Resources

- Oil Spill Response Vessels
- Oil Spill Response Barges
- Dispersant Planes
- Work Boats
- High Capacity Skimming Systems
- Shallow Water Portable Barge Sets
- Ocean and Inland Boom
- Vacuum Transfer Units
- Mobile Communications Units
- Yellow Iron & Land Based Equipment
NRC offers OSRO response capability required to satisfy the following response planning requirements:

- Average Most Probable Discharge (advance request required)
- Maximum Most Probable Discharge
- Worst Case Discharge
- Shallow Water Response Capability
- Shoreline Protection and Cleanup
- Dispersants
- LAPIO Group V (submerged oil) Recovery

Oil Spill Response services are provided in all Captain of the Port (COTP) zones in the U.S. (Alaska is considered supplemental)
OSRO Services are Offered in all U.S. Coast Guard Operating Environments:

- Port Areas
- Rivers and Canals
- Great Lakes
- Inland
- Nearshore
- Offshore
- Open Ocean
NRC Independent Contractor Network (ICN)

Provides access to:
- National network of response professionals
- Pre-staged response and remediation equipment available and on-call 24/7 365 days a year

Consists of:
- 140 + contractor companies
- Over 550 locations nationwide
- More than 5,000 trained personnel
- More than 9,000 pieces of response equipment
- Vetted and contracted to NRC via signed ER agreement
NRC Independent Contractor Network (ICN)
Located in Region 5 – Indiana, Michigan, & Ohio

- Clean Harbors Environmental Services
- Environmental Management Specialists Inc.
- Environmental Restoration LLC
- EQ Industrial Services
- Evergreen Environmental Services, Inc.
- Future Environmental, Inc.
- Heritage Environmental Services Inc.
- Hulcher Services, Inc.
- Mackinac Environmental
- Marine Pollution Control (MPC)
- Mid America Fuels
- National Industrial Maintenance, Inc.
- Northstar Recovery Services
- OSI Environmental, Inc.
- SET Environmental, Inc.
- Southern Waste Services Inc.
- Sunpro Services
- Summit Environmental Services
- Veolia Environmental Services
- Weavertown Group
NRC & ICN Response Equipment
USCG/EPA Region 5
NRC & ICN Response Equipment
USCG/EPA Region 5 – Cleveland, OH
### Response Equipment Within 6 to 24 Hours of Cleveland, OH

<table>
<thead>
<tr>
<th>Equipment</th>
<th>6 - Hours</th>
<th>12 - Hours</th>
<th>24 - Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>75,077 FT</td>
<td>450,026 FT</td>
<td>1,119,830 FT</td>
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<tr>
<td>EDRC</td>
<td>139,371 BBLs</td>
<td>565,981 BBLs</td>
<td>1,343,494 BBLs</td>
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<tr>
<td>Portable Storage</td>
<td>66,435 BBLs</td>
<td>565,103 BBLs</td>
<td>845,581 BBLs</td>
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<tr>
<td>Vessels</td>
<td>98</td>
<td>493</td>
<td>1,034</td>
</tr>
<tr>
<td>Personnel</td>
<td>260</td>
<td>1,300</td>
<td>2.795</td>
</tr>
</tbody>
</table>
## NRC Dispersant Aircraft Inventory
(CAPS Dispersant Requirements – Feb., 2011)

<table>
<thead>
<tr>
<th>Location of Dispersant Aircraft</th>
<th>Type of Aircraft</th>
<th>Storage Capacity</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Houma, LA</td>
<td>DC - 4</td>
<td>2,100 gal</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>DC - 3</td>
<td>1,200 gal</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Basler BT 67</td>
<td>2,000 gal</td>
<td>1</td>
</tr>
<tr>
<td>Atwater, CA</td>
<td>DC - 4</td>
<td>2,100 gal</td>
<td>1</td>
</tr>
<tr>
<td>Opa-locka, FL</td>
<td>DC - 6</td>
<td>3,310 gal</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL AIRCRAFT**

6
Aircraft Inventory & Staging Bases
Duty Officers on watch
24 hrs/day, 365 days/year

Dedicated Emergency Spill Line
(800) 899-4672
(631) 224-9141, Ext. 0
E-Mail: iocdo@nrcc.com

Focal point for activation, documentation, tracking and mobilization of resources

The nerve center of an operation and primary Command Center for coordination of response activities
Emergency Response Activation Process

- Qualified Individual notifies NRC that a spill has occurred
- NRC Duty Officer fills out Initial Spill Report
- Provide QI with ATP (Authorization to Proceed)
- IOC Contacts NRC Regional Manager (RM) and NRC Emergency Response Team (ERT)
  - Briefs on situation
  - IOC facilitates contact with QI
  - Regional Manager en route to Facility or spill site
  - Constant contact with IOC and QI
  - Area ICN contractors contacted and notified
  - IOC notifies NRC Emergency Response Teams
Emergency Response Activated

- NRC begins mobilization & deployment of equipment & personnel
- Initial assessment team on site
- QI is briefed
- Situation Room set up at NRC headquarters
  - NRC begins assessment of incident
  - Mapping of area
  - Check weather tides & currents
  - Provides assessments to Client QI
  - Passes duties to NRC’s ERT
- NRC RM & ERT on site working with first responders and Client’s SMT
Rogers City, MI

Objective: Prevent oil from spreading from terminal turning basin to Lake Michigan

Equipment staged:

- 9000’ 18” boom, two drum/disc skimmers,
- 100 bbl towable bladder, two - 24bbl pillow tanks
- Two fast response trailers and one 53’ van trailer
  - 1000’ boom deployed
  - NRC Drum/Disc Skimmer
  - Hydraulic Power Unit
  - Two 24bbl Pillow Tanks
  - Client, multiple local contractor support
  - Training on equipment along with SMTTX
Wellington, OH 2012

- A underground pipeline leaked 125,000 gallons of gasoline into White Ditch
- Evacuation of Residents in Spill Zone
- Local FD stopped spill downstream by creating an underflow dam to prevent product from entering Black River and possibly Lake Erie
- Multi-agency Response – FD, EPA, OH EPA, County, and Numerous Response Contractors
- 530 Tons of Contaminated Soil Recovered
- Constant Air Monitoring for Vapors and Odor
- Cold weather operations
2012, Wellington, Ohio
Case Study – Objectives

- Control the Source
- Keep Spill from Entering Navigable Waterway
- Remove Product from Impacted creek banks
- Remove Product from White Ditch
- Advise client on best practices
2012, Wellington, Ohio Case Study – Spill Obstacles

- Cold Weather
- Shallow Water
- Heavy Sheening from Creek Banks
- Access to Ditch and Concern for Damage to River Banks
- 24-Hour Operations
2012, Wellington, Ohio
Case Study – Spill Operations

- Recovery/ Soil,
  Oily Water, Debris
- Sorbents
- Boom
- Vac Trucks
- Aeration
- Water Management
- Decon
2012, Wellington, Ohio
Case Study – NRC’s Role

- Manage Response Operations & Contractors
- Field Support
- Advise RP on Response Operations
- Develop Incident Action Plan
- Liaison with Regulatory Agencies
- Allow RP Facility Personnel to Return to their Day-Job and Return to Normal Operations ASAP
Cygnet, Ohio February 2009

- A underground pipeline rupture caused 27,300 gallons of crude oil to spill into the Rocky Ford and Portage Rivers
- 12 miles of river affected
- Concern that oil would reach Lake Erie
- Shutdown of major pipeline feed from Ohio to Michigan – 140,000 bbls per day
- NRC provided supervisory personnel and 50 additional contractors
- Cold weather operations
- Difficult access to river and concern of damage to river bank
- “Thermal bank remediation“ of creek bank, approved by EPA
Quebec, January 28, 2008

- A flange and pipeline failure caused 50,000 – 60,000 gal of bunkers to discharge into a field and adjoining creek
- No detection of leak within first few days
- Local homeowner complained of odor
- Facility response personnel and contractors notified

Weather and Working Conditions:
- Average Day = 18 - 25 Fahrenheit
- Average Night = 4 - 18 Fahrenheit
- Three snow storms with +10 inches
- Light snow every day
- Some oil trapped between layers of ice
- Steam and hot water boilers invaluable
Questions

National Response Corporation

24 Hour Emergencies
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