Marine Spill Response Corporation (MSRC)
OSPR/Chevron Oil Spill Response Technology Workshop

February 28, 2013
Overview

▪ MSRC/MPA History

▪ Areas of Operations

▪ Response Resources (Hardware)
  − Marine Assets
  − Aerial Dispersant Capability
  − In-Situ Burning

▪ Personnel (Software)
  − Dedicated MSRC California Personnel
  − Other dedicated MSRC West Coast personnel
  − “East of the Rockies” dedicated MSRC personnel
  − MSRC Reservist Program
  − MSRC STARs Contractor Network
  − MSRC Southern California Mariners Oil Spill Team (MOST) Program
Overview – (cont’d)

▪ Technology
  – Enhanced oil detection to “get boats in oil”
  – Enhanced encounter rate
  – Sophisticated Telecommunications Capability

▪ Summary

▪ Questions
MSRC/MPA History

- Marine Spill Response Corporation (MSRC) formed in 1990 as largest, independent, non-profit, dedicated emergency response company
  - Primary functions are Vessel and Facility plan citation
  - Spill response services

- MSRC is funded exclusively by the Marine Preservation Association (MPA)
  - Formed in 1990 as privately funded, non-profit (and tax-exempt) membership corporation
  - Two-tier structure to improve overall non-spiller liability defenses
  - Avoids direct company involvement and added legal risks associated with traditional co-op structures
MSRC Response Resources (Hardware)

- Marine Assets
- Aerial Dispersant Capability
- In-Situ Burning
MSRC Response Resources – Nationwide and California

- Largest oil spill response organization worldwide
- 436 Dedicated personnel – 104 in California
- 85 Equipment sites – 36 sites in California
  - 36 Manned sites – 5 California sites
- 50 Oil Spill Response Vessels (OSRVs)
  - 15 210 ft. OSRVs – (2) Richmond and Terminal Island
  - 5 Fast Response Vessels (FRVs) – (1) Richmond
  - 5 PSVs - GOM
- 19 Oil Spill Response Barges (OSRBs)
  - Range from 12,000 – 68,000 bbl. – Richmond (45,000 bbl.) and Port Hueneme (32,000 bbl.)
- 68 Shallow Water Barges – 14 in California
- 10 Kvichak Marcos – 1 at Terminal Island
- 654,000 ft. of boom (all sizes) – 198,266 ft. in California
- 21,500 ft. of fire boom
- Investment in buster technology 2012/2013 – 2 in CA
- 293 Skimming Systems – 88 systems in California
MSRC Responder Class Vessels

- 210 ft. LOA/45 ft. beam
- 12 knot speed of advance
- 4,000 bbl. temporary storage
- 2 Oil water separators
  - 14,000 bbl. temporary storage credit from USCG
  - 12,901 bbl. temporary storage credit from OSPR
- 5,280 ft. of Sea Sentry II ocean boom
- Berthing for 38
- Medical facility
- Helicopter deck
- Command and control capability
Ocean Liberty

- Home Port – Richmond, CA
- 155 ft. LOA/38 ft. beam
- Draft 12.6 ft.
- 2,089 bbl. of temporary storage
- 2,250 ft. of 43” Expandi boom
- 1,000 ft. of 30” Expandi boom
- 4,400 ft. of 18” harbor boom

- Berthing for 15
- Minimum 24 hr. crew - 5
- Command and control capability
- 10 knot speed of advance
Sea Strike

- Home Port – Berth 57, Long Beach, CA
- 122 ft. LOA/34 ft. beam
- Draft 11.5 ft.
- 1,267 bbl. of temporary storage
- 3,600 ft. of 43” Expandi boom
- 180 ft. of troil boom
- Berthing for 12
- Minimum 24 hr. crew – 4
- Command and control capability
- 10 knot speed of advance
- NightSight Infrared Camera
19 dedicated storage barges nationwide
2 dedicated storage barges in California converted for skimming
Configured with 660 ft. of ocean boom for enhanced “U” skimming
Yearly underway training deployments
MSRC Responses Resources – Offshore Skimming Capability

- 5 PSVs modified for dual commercial service/oil spill response
- High capacity systems (skimming/boom-oil containment/storage)
- Newer technology skimmers
- Storage capacity ranging from 10,000 to 24,000 bbl.
- Low visibility spill detection – X-Band/Infrared
Dedicated response assets to reduce response reaction time

Offshore, Protected Water and Shoreline Defense

Appropriately sized and engineered for various operating environments

Marine platforms with substantial recovered oil storage relative to rated skimming systems, necessary to provide opportunity for continuous and unimpeded spill recovery operations

Low reliance on commercial “vessels of opportunity” and other marine assets that are not designed for spill response and storage of recovered oil
MSRC Resources – Nearshore/Shallow Water Skimming

- Fast Response Vessels (FRVs) – 5
  - 26 knot speed of advance

- Kvichak Marco Skimmers – 10
  - Transportable

- Shallow Water Barge Systems – 68
  - Transportable
  - 3 ft. draft when fully laden
  - 400 bbl. of storage in two pontoons
  - Self-propelled or push boat
MSRC Resources – Aerial Dispersant Capability

- 2 dedicated C-130 aircraft based out of Mesa, AZ and Kiln, MS
- 4 dedicated King Air BE 90 based out of Concord, CA; Kiln, MS; San Juan, PR; and Salisbury, MD
  - Function as spray or spotter aircraft
- 104,000 gallons of COREXIT stockpiled throughout the US (103,000 gallons 9500)
MSRC Resources – In Situ Burning

- Inventory of 21,500 ft. - 500’ fire boom sections
  - Hydro and pyro boom acquisitions
  - Inventory build to support 4 burn teams in daily operation until manufacturer can begin re-supply cycle
  - Trained personnel and annual training deployment
Personnel (Software)

- Dedicated MSRC California personnel - 104
- Other dedicated MSRC West Coast personnel - 85
- “East of Rockies” dedicated MSRC personnel – 247
- MSRC Reservist Program
- STARs Contractor Network
- MSRC Southern California Mariners Oil Spill Team (MOST) Program
MSRC Reservist Program

- 360 pre-identified, trained, contracted operational response personnel
  - Program commenced 2012
  - Responder “back deck” trained
  - All personnel with pre-arranged HAZWOPER credentials
  - East Coast contractor – Moran Environmental
  - West Coast contractor – Global Diving and Salvage
  - 180 pre-qualified personnel in California
MSRC STARs Contractor Network

- **Spill Team Area Responders (STARs)**
  - 100 contractors at 200 nationwide locations
  - Trained network rather than telephone directory
  - List of STARs on MSRC website – [www.msrc.org](http://www.msrc.org)

- **MSRC can function as a general or subcontractor**
  - Mark-up at 10% (low end of industry range)
  - Contractual response relationship through long established program
  - STARs contractors subject to 30-days notice on price changes
  - Multiple mark-ups scrutinized/avoided
MSRC Southern California Mariners Oil Spill Team (MOST) Program

- Subject to availability
- 8 hr. HAZWOPER trained
- 40 LA/LB fishing vessels under contract
- Over 100 fisherman trained
- Dedicated Program Manager
- Enhanced oil detection to “get boats in oil”
- Enhanced Encounter Rate
- Sophisticated Telecommunications Capability
MSRC – Enhanced Oil Detection

- “Getting boats in oil”
  - X Band and Infrared detection on deep draft vessels and some hand-held units on smaller vessels
  - California and Pacific Responders outfitted with both systems

- X-Band radar
- Slick location detection

- Infrared camera
- Slick thickness detection
MSRC – Enhanced Encounter Rate

- Recently added nationwide inventory of Norwegian “buster technology”
  - 4 systems currently operational, one in Northern California
  - 10 additional systems scheduled for delivery during 2\(^{nd}\) quarter 2013
  - 2nd California buster will be located in Southern California
  - All systems can be cascaded
MSRC – Sophisticated Telecommunications Capability

- Emergency Communications Packages
  - Use in spill and non-spill emergencies
  - Suites provide marine and aviation radios
  - 2 suites in California (Richmond and Long Beach)
  - Dedicated satellite access
  - 30 Dedicated T&IS personnel nationwide, 6 fulltime T&IS California personnel
  - Independent telephone system (96 phone stations per suite)

- Small Satellite Packages
  - Same systems with eight telephones and highly portable
MSRC – Summary

- Hardware
- Software
- Technology
MSRC – Questions

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