



BAY AREA UASI

Radiological/Nuclear Detection Regional Program Development

UASI Approval Authority Meeting

10 April 2014

Bruce Martin, CBRNE Project Manager for UASI



We are Initiating a regional Rad/Nuc Detection Program Development Effort

***Preventing radiological and nuclear terrorism
requires the ability to detect and interdict nuclear
materials before they can be misused.***



Preventive Radiological & Nuclear Detection:

PRND = Detect to Prevent



Multi-Discipline Program with a LE Focus

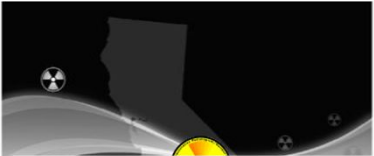


Key Regional & State RND Program Development Drivers


Other RND programs advancing in the State

- Bay Area Maritime Program maturing
- Securing the Cities in LA/Long Beach

State of California
Preventative Radiological/Nuclear
Detection Strategy



State of California
Preventative Radiological/Nuclear
Detection Concept of Operations Guide



California Emergency Management Agency

Released
January 20, 2010

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January 20, 2010



UASI Strategy Identified Needs

The Bay Area Homeland Security Strategy and
Implementation Plan
2012 – 2015



November 2012

For Official Use Only

Goal 4 Strengthen CBRNE Detection, Response, and Decontamination Capabilities

Objective 4.3 Enhance Screening Search and Detection Capabilities

⇒ Per 2012 Core Capability Assessment, *Screening, Search and Detection “Needs Attention”*



CA State HSS Identified PRND Needs

Goal 5 *Strengthen Catastrophic CBRNE and All Hazards Incident Planning, Detection and Response Capabilities*

Objective 5.3 Implement the California Preventative Radiological and Nuclear Detection Program

Implementation Steps and Resource Elements

PLANNING	
5.3-P1	Determine the resources and capabilities of all entities to assist with preventive radiological and nuclear detection and reporting activities
5.3-P2	Determine existing gaps in current preventive radiological and nuclear detection capabilities and identify solutions that directly support programs at the local and regional level.
5.3-P3	
ORGANIZATION	
5.3-01	Develop and sustain a collaborative framework supported by a Concept of Operations and guidelines for preventive radiological and nuclear detection.
5.3-02	Identify the recommended tools and resources available to interdict a potential threat to all state/local entities.
5.3-03	Establish a radiological and nuclear information sharing protocol among all partners.
5.3-04	Establish consistent operational guidelines for potential threat source notification and adjudication.
EQUIPMENT	
5.3-E1	
TRAINING	
5.3-T1	Incorporate preventive radiological and nuclear detection into training programs.
EXERCISES	
5.3-Ex1	Incorporate preventive radiological and nuclear detection into exercise programs.



Scoping Completed for RND Program Assistance in summer 2013

- ***>20 organizations initially engaged***
Pockets of assets and energy, enough interest to support regional engagement.
- ***Initial multi-agency planning meeting conducted 12/11/13***
- Agency outreach will continue through the entire development effort.

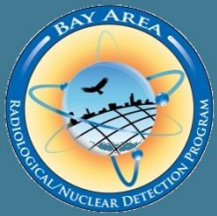




Overarching Program Development Goal:

Establish regional framework for the coordination of rad/nuc detection activities that has broad participation...

...while minimizing the impact of program development and implementation on Bay Area agencies



Development Activities to Date

- Stood up Executive Task Force to steer the program development process
- Developed preliminary Program Mission, Objectives and End States
- Initiated capabilities information gathering
- Started agency-specific program development/advancement support (for agencies with RND equipment)
- Constructing a General Task Force to develop regional program documents and sustainment tools



Executive Task Force

Task Force Chair: Chief Bruce Martin, Bay Area UASI CBRNE Program Manager

Purpose: Steer the overall land-based/Bay Area Interior RND program development effort.

Alameda County Fire Department, Division Chief Rob Schnepf (Special Operations)

Alameda County Sheriff's Office, Commander Rocky Medeiros

BART Police Department, Lieutenant Kevin Franklin, Manager of Security Programs

California Highway Patrol, Lieutenant Jim Libby, Dublin Area

Federal Bureau of Investigation, San Francisco, Special Agent Sean Donahue, WMDC

Northern California Regional Intelligence Center, Deputy Director Daniel Mahoney

Radiological Assistance Program, Joel Swanson, Contractor Response Coordinator

San Francisco Police Department, Deputy Chief Charlie Orkes, Special Operations

San Francisco Fire Department, Assistant Deputy Chief Kyle Merkins

San Jose Police Department, Deputy Chief David Hober, Bureau of Field Operations

Santa Clara County Fire Department, Battalion Chief James Young

Santa Clara County Sheriff, Sergeant Brian Washburn, Bomb Technician/Commander

USCG/Maritime representation, LCDR Deon Scott, Asst Chief Enforcement Division

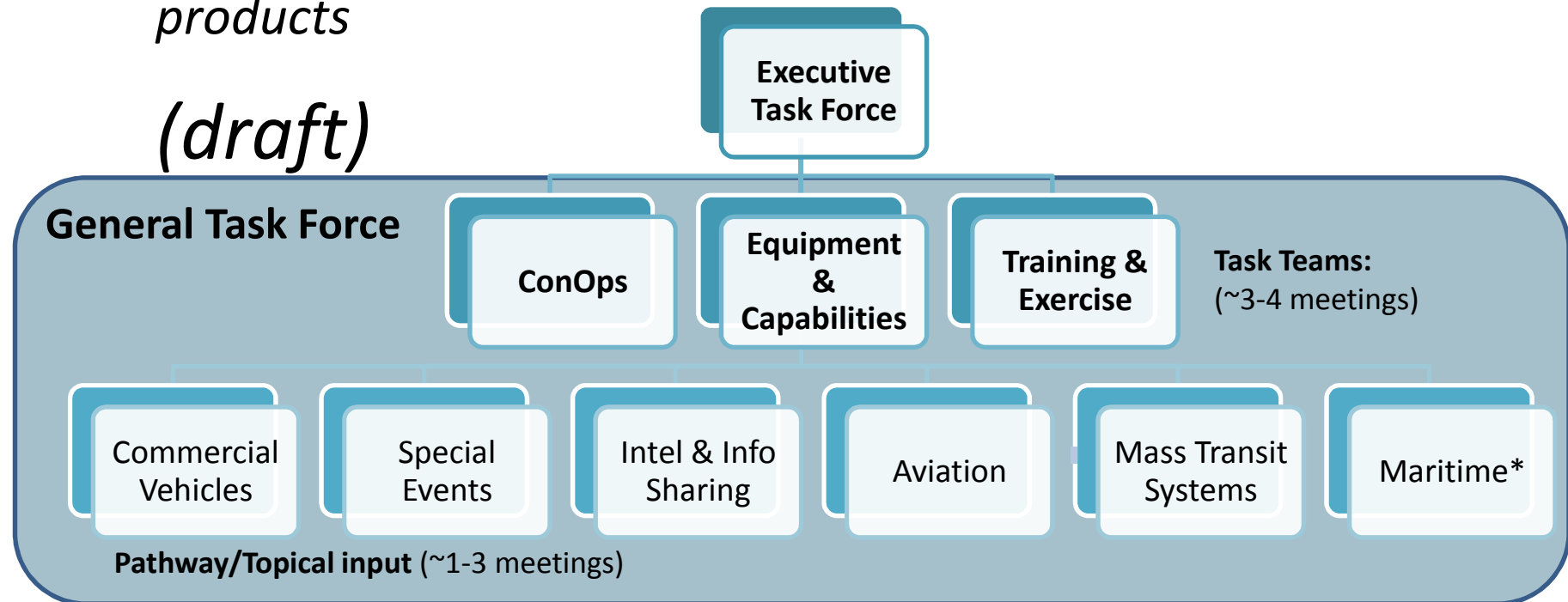
95th Civil Support Team, Lt Col Michael Sather



Constructing Working Groups & Program Development Structure

determined by regional interests, priorities, and desired products

(draft)



❖ *Maritime Program ConOps and SOP coordinated separately by AMSC/Neptune Coalition, but this interior development effort will be informed by their lessons learned.*



Preliminary Program

END STATES

- **A sustainable RND Program that ensures that officers in the field have the equipment, training, and technical support structure to help them quickly and successfully resolve radiation detection issues.**
- **A robust and efficient program that minimizes impacts on commerce and the public while avoiding undue operational impacts on the agencies that perform RND operations.**
- Coordinated progression of potential radiological and nuclear threats to Federal support.
- Collaborative RND data/intelligence sharing and incident communications, coordinated through local public safety agencies and regional fusion centers.
- **Uniformity of protocols and radiation detection equipment to foster interoperability and efficient training.**
- **Leveraging of multi-agency support for special events to provide a baseline mechanism for RND collaboration.**
- A framework that supports the integration of additional agencies and regional partners.
- Sustained regional resources for surge and alarm adjudication that can be shared across the region.



Preliminary Regional Engagement & Development Timeline

- **Task Force/WG Meetings (April – July)**
 - ~Monthly Roundtable meetings & status telecons/webinars
 - Additional State/Local program and technical briefings to inform product development
- **Equipment Demo/Rodeo**
 - Vendor (or)
 - Community Show and Tell
- **ConOps Workshop**
- **Sustainment Workshop**

**Bay Area
RND Program Development Activities**

March 20th 2014

Program Development Kick Off Meeting

- Briefing on Bay Area Rad/Nuc Detection capabilities
- What is the Radiological and Nuclear Terrorism threat to the region?
- Review regional role in the Global Nuclear Detection Architecture
- Bay Area Rad/Nuc Detection program mission, goals and objectives
- Identify agency interest areas and opportunities for capability improvements
- Detection equipment demo/display

June 5th 2014

ConOps Alarm Adjudication Workshop

- Bay Area (draft) ConOps document roll-out and vetting
- Regional ConOps, alarm resolution, and reachback capabilities
- Standard Operation Procedures & Job Aids
- (Optional) Rad/Nuc detection equipment rodeo

August 2014

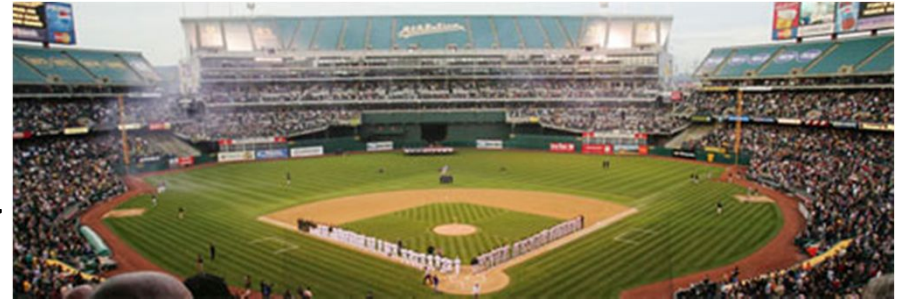
Implementation & Sustainment Workshop

- Vet equipment requirements and acquisition priorities
- Long-term program governance, functions, and ownership
- Training and exercise program
- Regional strategy roll-out



Preliminary Regional Interests and Priorities that may be addressed by Working Groups

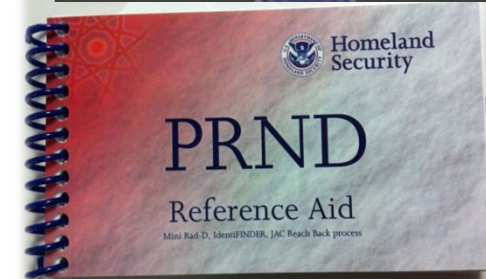
- Regional strategy and **ConOps**
- **Special Event planning** ConOps & tools
- Comprehensive regional equipment & capabilities survey
- **Sustainment:** Equipment calibration, **Training & Exercise/Drill coordination**
- Prosecutor's Office: Reasonable suspicion, use of PRD' s to support stop/search
- *Regional pathway analysis and strategy development*





Preliminary Development Priorities, Local/Agency Level

- Technical support for **SOP and policy development**
- Equipment tech spec info **to inform purchases**
- **Training** – locally delivered options, initial and refresher
- Job aids
- Grant writing information



Draft
SFBA Personal Radiation Detector (PRD) Operations Pocket Guide

<p>Mini-Rad-D/951 nukeALERT Operation</p> <ul style="list-style-type: none"> • Move switch to either SPK or VIB, unit ON • 30sec. Self test and bkgd, when LED stops flashing, unit is ready for operation • Move switch to OFF, unit is off <p>Screening Process Steps</p> <ul style="list-style-type: none"> • Detect presence of radiation • Verify alert • Locate rad levels • Measure rad levels • Identify rad material(s), if necessary • Assess and adjudicate as threat or non-threat <p>Request Secondary Screening when:</p> <ul style="list-style-type: none"> • Source of alarm not revealed • Radiation levels not consistent with interview response/shipping documents • Threat materials/conditions suspected/encountered • Repeatable neutron detection not associated with a legal shipment 	<p>Isotopes/Conditions of Special Concern</p> <ul style="list-style-type: none"> • Plutonium (Pu-239) • Uranium (U-233) • Enriched Uranium (U-235) • Neptunium (Np-237) • Any repeatable Neutron alert <p>Common alarms not a threat</p> <ul style="list-style-type: none"> • NORM (Ra-226, K-40) • Exempt consumer products (Fiesta ware) • Medical treatments (I-131, Tc-99m) • Legal transportation of materials
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Draft

SAM 940 Operator Job Aid **DRAFT 2013-10-15**
San Francisco Bay Area

Isotope information and contact numbers are provided on page 2.

OPERATION

<p>START UP</p> <ul style="list-style-type: none"> • Press the BACK button and hold for 3 to 4 seconds • Unit performs "Self - Test/Calibration" automatically on start up • Press "ENTER" to continue • Use the "Up and Down" buttons to highlight the desired sign in. This is normally "User" • Press "ENTER" You are now at the default screen "Dial" search mode. <p>COLLECTING A BACKGROUND</p> <ul style="list-style-type: none"> • Use the right arrow to highlight the "Background" soft key 	<p>OPERATION OF MENUS FOR PARAMETER SETTINGS AND SPECTRAL DATA</p> <ul style="list-style-type: none"> • Press "Menu" to access the four menus: Spectral Data, Field Settings, Configuration, and Help • Use the arrow keys to navigate through the four menu soft keys • To navigate in the menu, use the up and down arrows to highlight your choice • Press "ENTER" to select <p>DOWNLOADING</p> <p>Files can be downloaded by either an Ethernet line or the CompactFlash card</p>
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Regional Program Development – Next Steps

– Construct and Begin Working Groups

- **ConOps** – regional implementation of CA State PRND ConOps
- **Special Events** – planning tool/template
- **Training and Exercise**
- **Equipment Choices**
- **Maritime** - *developed separately under AMSC/Neptune Coalition direction*
- ***Others per Kick Off Meeting participant feedback***

– Draft:

- Strategy
- ConOps document & SOP template
- Regional Equipment & Capabilities list

Questions

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DHS Domestic Nuclear Detection Office (DNDO) Assistance will facilitate:

- Development of a regional Concept of Operations (ConOps) and guidelines for comprehensive RND alarm adjudication that is consistent with the State of California ConOps.
- Incorporation of radiological/nuclear detection into training and exercise programs.
- Determination of the resources and capabilities of all entities to assist with rad/nuc detection and reporting activities.
- Establishment of a radiological/nuclear intelligence sharing protocol among all partners.
- Development of a Bay Area detection architecture that ensures a smooth transition of potential threats between agencies and the Federal Radiological/Nuclear Search Operations.
- Identification of long term program management and oversight.
- Creation of uniform protocols and radiation detection equipment to foster efficient procurements, interoperability and training consistency.