Chemical, Biological, and Radiological Defense: Annex to the Facility Response Plan, NAS Corpus Christi, TX
Why?
(the rationale behind the annex)

• Why a plan?
  – Increases the Station’s effective response to a potential act of terrorism

• Why an annex of the FRP?
  – The FRP is a well-understood, usable document already in place, with both response and training functions
The Facility Response Plan

COMPONENTS

“...The NAS Corpus Christi policy is to manage oil and hazardous substances so as to prevent accidents...and to train personnel in procedures for the effective control of accidents, fires or spills when they occur.”

Three sections:

• “Red Plan”
• Emergency Response Plan
• Facility Response Plan (FRP) - includes annexes
The Facility Response Plan
(continued)

The Red Plan:

- double-sided sheet of actions and notifications
  - *what to do*
  - *who to call*
The Facility Response Plan
(continued)

The Emergency Response Plan provides a summary of:

• emergency response action plans: procedures based on responder, type of incident
• response personnel - names, phone numbers, position
• response equipment - type, location, quantity
• sensitive areas at risk
• waste disposal plan
• evacuation plan
The Facility Response Plan (continued)

The Facility Response Plan provides:
• detailed facility and personnel information
• evaluation of hazards
• small, medium, worst-case discharges (OPA 90)
• self-inspection
• training, drills, exercises
• communications
• health and safety
• administrative - plan reviews and updates
Purpose:

- provide CBRD dimension to the FRP
- parallel format and function of the FRP
- to be used as a tool in the same manner as the FRP:
  - response
  - training
Wide Degree of Ownership

Initial Meeting → Review → Final Approval

• Disaster Preparedness Officer
• Environmental
• Fire Department
• Security
• Health and Safety
• Medical
• Public Affairs
Chemical, Biological, and Radiological Defense Annex

Contents of Annex:

- CBRD Incident Notification Checklist (Yellow Plan)
- CW agents
  - methods of delivery / dispersal, detection, types of agents
- BW agents
  - methods of delivery / dispersal, detection, types of agents
- RW agents
  - methods of delivery / dispersal, detection, types of agents
Chemical, Biological, and Radiological Defense Annex

Contents of Annex (continued):

- **Response Planning and Organization**
  - *personnel, duties*
- **Base-Wide Response for Safety and Security**
  - *overall actions to be followed*
- **Response Protection**
  - *individual and collective protection*
- **Personal and Material Decontamination**
- **Site-Specific Responses**
- **Cleanup and Disposal**
Chemical Warfare Agents

- Methods of Delivery / Dispersal
  - persistent / non-persistent
  - meteorological factors

- Detection Methods - gross level, low-level

- Types of Agents - nerve, blister, blood, pulmonary, tear, vomiting and psycho-/physio-chemical

- Checklist of Response Actions
Sample Checklist of Response Actions

CHEMICAL WEAPONS INCIDENT
CHECKLIST OF RESPONSE ACTIONS

Date: __________________________
Personnel: ______________________

- Contact Fire Department via Fire Department Dispatcher
- Notify Security Office
- Contact Command Duty Officer (CDO)
- Initiate lock-down of the Base
- Contact hospital for first aid / emergency care for victim(s)
- Contact Disaster Preparedness Officer (DPO)
- Contact Explosive Ordnance Unit (EOD)
- Notify PW Environmental
- Evaluate incident by determining type of chemical weapon, severity and scope
- Set up Emergency Operations Center (EOC) in Building 2 HQ
- Set up Gulf Stream Decontamination / Triage Unit for treatment of victims
- Stabilize and contain sources of chemical contamination at the site of the incident
- Each unit or department proceed according to its own site-specific emergency procedures
- Contact approved cleanup contractor
Biological Warfare Agents

- Methods of Delivery
- Detection Methods
- Types of Agents - bacteria, viruses, toxins
- Checklist of Response Actions
Radiological Weapons

- Radiation Energy - gamma, beta, alpha

- Types of Radiological Weapons
  - dispersal device (RDD) - without the use of an explosive
  - dispersal weapon (RDW) - with an explosive, e.g., “dirty bombs”

- Post-Incident Detection and Measure of Impact
Response Planning and Organization

“When notified, will…”

- Fire Department
- Security Officer
- Disaster Preparedness Officer
- Command Duty Officer
- Naval Hospital
- Explosive Ordnance Disposal Unit (EOD)
- Public Affairs Officer
- Navy Meteorological Center
- Public Works Officer
Base-Wide Response for Safety and Security

Three identifiable response phases:

- Initial Response
- Emergency Actions
- Site Remediation
Base-Wide Response for Safety and Security

FLOWCHART OF CB/RD DISCOVERY AND IMMEDIATE RESPONSE ACTIONS (DRAFT)

1. INCIDENT OCCURS
   - APPEARANCE OF SYMPTOMS
2. INCIDENT OCCURS WITH IMMEDIATE DISCOVERY
   - NOTIFY FIRE DEPT. 1-333, 9-911
     - explosion?
       - yes
         - CONTACT EOD
       - no
         - NOTIFY SECURITY AND DPO
   - initial response
3. EVALUATE INCIDENT
   - EXPLOSION W/ VAPOR? - chemical
     - EXPLOSION ONLY? - radiological possible; use Geiger counter
     - VICTIMS - STRONG ODOR, CONSTRICTION OF PUPILS, NAUSEA, WEAKNESS? - chemical
     - VICTIMS - FLU-LIKE SYMPTOMS, FEVER? - biological
   - emergency actions
4. DPO INITIATES SETUP OF DECON/TRADE UNIT
   - FIRE DEPT. PERFORMS SEARCH AND RESCUE
   - SECURITY INITIATES LOCK-DOWN OF BASE
5. TREATMENT AND DECON OF PATIENTS AND RESPONSE PERSONNEL
6. CLEANUP OF CB/RD WASTE BY APPROVED CONTRACTORS
7. site remediation
Evacuation Route Map
Response Protection

- Universal Precautions
- Personal Protective Equipment
  - includes tables of respiratory protection
- Collective Protection (engineered controls)
- Mission-Oriented Protective Postures (MOPP)
  - levels 1, 2, 3, 4
Personal and Material Decontamination

LEXINGTON BOULEVARD

SANITARY SEWER LINE

SETUP AREA FOR EMERGENCY DECON AREA

MEDICAL TECHNICIANS (EMT)

SHOES OFF

TREATMENT AREA FOR LITTER PATIENTS (NON-AMBULATORY)

TREATMENT AREA FOR AMBULATORY VICTIMS

TRIAGE ROUTE

AMBULANCE ROUTE

HELIICOPTER LANDING SITE

ASPHALT

ASPHALT

SHOWERS AND DECON AREA
Personal and Material Decontamination

- Decontamination of Personnel

- Decontamination of Buildings and Equipment
  - includes roads and pathways, motor vehicles, aircraft, tools, small arms
Cleanup and Disposal of CBR Releases

List of licensed contractors in the Corpus Christi area:
- capabilities
- response times
- contact info
Chemical, Biological, and Radiological Defense Annex

Final bullets - Strengths and Features:

- unique and complete collaboration between Station division chiefs
- comprehensive planning for specific scenarios
- decontamination / triage unit
- utilization of in-place incident response structure and guidance documents
- reliance upon experts for current, state-of-the-research information