

GOVERNOR'S OFFICE OF EMERGENCY SERVICES
FIRE & RESCUE DIVISION

**HAZARDOUS MATERIALS COMPANY TYPING
ON-SITE RE-INSPECTION RECORD**

(CIRCLE ONE)
**MASTER
COPY**

Version 1.2
(Latest Revision February 3, 2017)

| | | | | | |
|--|--------------------|---|--------------------|-----------------------------------|-------------------------|
| Department 3 Letter Identifier (MACS): | XXX XXX | Department Name: | - | Company Designation: | --- |
| Lead Point Of Contact: | - | Date of Inspection: | - | Location of Inspection: (Address) | - |
| Inspection Team: | | Inspection TYPE: (Enter 1, 2, 3) | - | Inspection Result: (Circle) | PASS FAIL |
| Original Insp. Request #: | - | Orig. Cert. #: (i.e. OR-yyyy-001) | OR-20xx-xxx | Re-Inspection Request #: | |
| | | | | Re-Inspection On Site Insp. #: | |

| | |
|----------------------------|---|
| UNIT RESPONDS FROM: | <small>(VERIFY – Address with proper zip)</small> |
|----------------------------|---|

| | |
|-------|-------|
| ----- | ----- |
| | |
| | |
| | |

NOTE: Please refer to the latest Edition of **FIRESCOPE Standardized Hazardous Materials Equipment List, PART TWO, "LIST OF EQUIPMENT"**, for a complete description of each tool or equipment item, required sizes, and listing of components for kits.

| | | | | | |
|--------|---|---------------------|--|--|--|
| | | | | | |
| | - | - | | | |
| 1.1.3 | TEST STRIPS, OXIDIZER, Packets (Physical or chemical property sensitive; Color change; i.e. Emquant, Sensafe) | 1 Pkt | | | |
| 1.1.4 | TEST STRIPS, PEROXIDE, Packets (Presence is based upon a color change; i.e. Emquant, Sensafe) | 1 Pkt | | | |
| 1.1.9 | TEST STRIPS, WMD CHEMICAL, Kit: (M-8 booklet of 25 sheets - Or - "3-WAY" booklet) NOTE: SOMETIMES THESE TEST PACKETS ARE A PART OF M256A1 KIT) | 1 Pkt of either one | Must detect nerve agents and blister agents | | |
| 1.1.10 | TEST PAPER, WMD CHEMICAL, Roll: (M-9 paper rolls or equal) | 1 Pkt | Single color change for nerve or blister | | |
| 1.1.11 | TEST PAPER, WMD CHEMICAL, Card: Military M256A1 plastic card test kit; (i.e. Fisher, Tradeways) | 1 Kit | (Usually contains about 12) | | |

| 1.2.1 | INDUSTRIALCHEMICALS, KNOWN, Qualitative: Test Kit (i.e. abbreviated or limited HazCat or 5-Step or equal) | 1 Kit | Testing of Knowns | | | |
|--|---|---|---|--------|--------|--------|
| 1.2.2 | INDUSTRIALCHEMICALS, UNKNOWN, Qualitative: Test Kit (i.e. Full function HazCat or 5-Step) (Also satisfies 1.2.1) | 1 Kit | Testing of Unknowns | | | |
| 1.2.8 | WMD, WATER TEST, MILITARY, Kit # M272 or M273; (i.e. LabSafety, Fisher Scientific, Utech, Tradeways) | 1 Kit | Nerve agents and Lewisite | | | |
| 1.2.9 | WMD CHEMICALS, MILITARY, Test Kit # M18A2 or M18A3 or CAD C-2; (i.e. LabSafety, Fisher Scientific, EAI, Tradeways) | 1 Kit | Nerve agents Lister agents Blood agents Choking agents | | | |
| 1.3 Qualitative Analysis, Kits – Electronic | | | | | | |
| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
| 1.3.1 | CHROMATOGRAPHY, GAS | One Kit Complete of any one of the three technologies Described | | | | |
| 1.3.2 | SPECTROMETRY, MASS or equal | | | | | |
| 1.3.3 | SPECTROSCOPY, INFRA-RED or equal | | | | | |
| 1.4 Colorimetric Analysis – Non-Electronic | | | | | | |
| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
| 1.4.1 | COLORIMETRIC Kit, BASIC; (i.e. Draeger, MSA, Sensidyne, Matheson, GasTec) | 1 Kit, Complete, of any one type listed | Spot analysis for Industrial Chemicals | | | |
| 1.4.2 | COLORIMETRIC Kit, CHIP; Miniaturized tubes in a plastic chip; (i.e. Draeger CMS, or equal) | | | | | |
| 1.4.3 | COLORIMETRIC Kit, MULTI-SENSING; Reads 5 or more tubes simultaneously (i.e. Draeger CDS or equal) | | | | | |
| 1.4.4 | COLORIMETRIC Kit, WMD Special; Special selection of industrial tubes for some WMD chemicals detection with flow chart or instruction book (i.e. Draeger, MSA CWA, or equal) | 1 Kit, Complete | Spot analysis for WMD chemicals | | | |
| 1.5 WMD Biological Detection – Electronic | | | | | | |
| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
| 1.5.1 | NON-AGENT SPECIFIC Biological Detection: Based upon a simple "Yes-No" color change, less than 50% confirmation. | Any 1 Stand-alone kit Either-Or | Must be agent specific, with electronic reader | | | |
| 1.5.2 | AGENT SPECIFIC Biological Detection: a. Protein fluorescence technologies (i.e. Guardian, Tetracore) - Or - b. Immuno-assay fluorescence technology (i.e. RAMP Systems) - Or - c. DNA replication technology (i.e. Smith Bio-Seq) - Or - Other equal or better system | | | | | |

| 2. AIR MONITORING | | | | | | |
|--------------------------------------|--|-------------|---|--------|--------|--------|
| 2.1 Confined Space Monitoring | | | | | | |
| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
| 2.1.1 | CONFINED SPACE OSHA STANDARD Four Gas: w/ wand, 10' tubing; For O ₂ , LEL, CO, H ₂ S (i.e. ISC, Rae, GasTech, MSA, BioSystems, AIM) | 1 Unit | Continuous monitoring; Intrinsic to UL #913 | | | |
| 2.1.2 | CALIBRATION KIT, for Item # 2.1.1 | 1 Kit | | | | |

| | | | | | | |
|-------|---|---------------------|--|--|--|--|
| 2.2.1 | TOXIC VAPOR, in ppm; Volatile Organic Compound (VOC) and Toxic Industrial Compounds (TIC); (Not Benzene); Capable of identifying specific substance. | 1 Capability | Continuous monitoring; Downloadable to computer | | | |
| 2.2.2 | AROMATIC HYDROCARBON (Benzene Ring) Monitoring. If capability included in 2.2.1, satisfies this requirement. | 1 Capability | Continuous monitoring | | | |
| 2.2.4 | CALIBRATION KITS: For each of the above that may be in inventory. | 1 Unit for each kit | | | | |

| | | | | | | |
|--------|--|--|------------------------------------|--|--|--|
| 2.3.1 | AMMONIA, nominal range 0 to 100 ppm; (i.e. Innova, Rae, Draeger) | 1 Capability | Continuous monitoring | | | |
| 2.3.2 | FREONS, Halogenated Hydrocarbons (Refrigerants); (i.e. AirWare, Tif, Rae) | 1 Capability | Refrigerants continuous monitoring | | | |
| 2.3.3 | HALOGEN GASES; Specifically Chlorine – Bromine and others are optional (i.e. GasAlert, Draeger, AirWare, BioSystems, RKI) | 1 Capability | At least Chlorine | | | |
| 2.3.4 | PHOSPHINE (i.e. BioSystems, RAE 3000, PK Safety) | 1 Capability | Continuous monitoring | | | |
| 2.3.16 | CALIBRATION KITS (For each instrument, as is necessary) | 1 for each type of monitoring unit on hand | | | | |

| | | | | | | |
|-------|--|---|---|--|--|--|
| 2.4.1 | NERVE AGENT Detection (at least one of GA, GB, GD, GF, VX): See Appendix D, Chart #1 | Must have capability to monitor and detect for at least one substance in each of these six categories. This may require one to several instruments, depending upon versatility of each instrument | Continuous Monitoring Nerve Agent | | | |
| 2.4.2 | BLISTER AGENT – MUSTARDS Detection (at least one of H, HD, HN, HS, HT): See Appendix D, Chart #1 | | Continuous Monitoring Blister Agent | | | |
| 2.4.3 | BLISTER AGENT – LEWISITE Detection (At least one of L, L-1, L-2, L-3): See Appendix D, Chart #1 | | Continuous Monitoring Lewisite Specific | | | |
| 2.4.4 | BLOOD AGENTS Detection (At least one of AC, HCN, CK, SA): See Appendix D, Chart #1 | | Continuous Monitoring Blood Agent | | | |
| 2.4.5 | CHOKING / VOMITING AGENTS Detection (At least one of CG, DP, Chlorine): See Appendix D, Chart #1 | | Continuous Monitoring Choking Agent | | | |
| 2.4.6 | INCAPACITATING AGENTS Detection (For Capsicum, also known as MACE, CN, CS-CN): See Appendix D, Chart #1 | | Continuous Monitoring Pepper Spray | | | |
| 2.4.7 | CALIBRATION KITS: Maintenance or Calibration Kit for each unit in inventory, as necessary. | | 1 for each type of monitoring unit | | | |

| 3.1.11 | SWAB, Sterile; Non-organic single use swab. (Replaces the fiberglass cloth). | 1 box of 6 | | | | |
|--|--|-----------------------------|---|--------|--------|--------|
| 3.1.27 | SCOOP, SMALL, Sterile, 2 oz: General purpose, plastic. | 1 | | | | |
| 3.2 Bulk Liquid Transfer – Mechanical | | | | | | |
| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
| 3.2.1 | PUMP, SYPHON, DRUM, Heavy Duty, Stainless Steel: For 55 gallon drums; with Teflon piston and 35 feet hose. | 1 of any of the three types | Mechanical, or if Electrical MUST be | | | |

| | | | | | | |
|--------|--|--------------------------------|--|--|--|--|
| 3.2.2 | PUMP, SYPHON, DRUM, Heavy Duty, PVC: For 55 gallon drums; with Viton or better gaskets and valves; 35 feet hose. | listed | INTRINSICALLY SAFE (label required) | | | |
| 3.2.3 | PUMP, ROTARY, Transfer, Metal: Suitable for flammable liquids in 55 gallon drums; flame arresting screen, vacuum breaker. | | | | | |
| 3.3.18 | CHAIN OF EVIDENCE FORMS: Usually available from local law enforcement or Arson Bureau. | 20 | | | | |
| 3.3.19 | PHOTO, ASSESSMENT and RECONNAISSANCE KIT, Film Type or Digital Technology: Must provide "instant" printed images or printable from on-board computer. | 1 kit or system of Either Type | 4 mega-pixels or better Water Resistant | | | |
| 3.3.20 | PHOTO, ASSESSMENT and RECONNAISSANCE KIT, Digital Type; 4 mega-pixel, downloadable and printable from computer; Water Resistant. | | | | | |
| 3.4.1 | CONTAINER, BIOLOGICAL, Plastic: Complete packaging system with locking screw lid, jars of various sizes (6 ml to 500 ml), reinforcing receptacle with instructions; Suitable for infectious bodily fluids, biological threat substances. (i.e. Saf-T-Pak) | 1 complete kit, any size | ICAO Packing #602 for Infectious Substances (Printed on box or container) | | | |

| | | | | | | |
|-----------------------------------|--|--|--|---------------|---------------|---------------|
| | | | | | | |
| 4.1.1 | GAMMA SURVEY CAPABILITY; Gamma radiation (10keV) with visual display meter 0.001 milli-R per hour scale, and CPM scale (0-60,000 CPM) | Must have capability to survey for alpha, beta, and gamma. Separate units will meet this requirement, -- OR -- One "combination" unit will suffice, see optional items | European "CE" Certification is recommended | | | As of 2007 |
| 4.1.2 | BETA SURVEY CAPABILITY; Beta detection (50 keV at 45% efficiency or 150 keV at 80% efficiency), with visual display read-out in R per minute /Counts Per Second (CPS) | | | | | |
| 4.1.3 | ALPHA SURVEY CAPABILITY; Alpha particle detection (2.5 MeV with 70% efficiency) with variable visual display in R and milli-R per hour, or CPM. | | | | | |
| 4.2 Radionuclide Detection | | | | | | |
| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
| 4.2.1 | RADIO-NUCLIDE DETECTION; Includes memory of radioactive nuclide library; Graphical display in CPS; Might be programmable | One Unit | Can identify and display specific radio nuclide | | | |
| 4.3 Dosimeters | | | | | | |
| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
| 4.3.1 | DOSIMETER, DIRECT READING: Accumulated dose, or quantity gamma and x-ray exposure; Requires re-charger; Scale increments should be in milli-R; - OR - Electronic version with alarm | 1 for <u>each</u> assigned member | ANSI N-13.5 Electronic versions will also satisfy | | | |

5. CHEMICAL PROTECTIVE CLOTHING

5.1 Vapor Protective

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---|---|--|--|---------------------|-------------|--------|
| 5.1.1 | VAPOR PROTECTIVE ENSEMBLE, NFPA 1991 Industrial Chemicals; Must display NFPA Certification label inside suit NOTE: Item # 5.1.4 (below) will also satisfy this requirement. | 4-Type II 6-Type I | Provides for vapor industrial chemical entry NFPA 1991 Compliant | Must have 6 | Must have 4 | |
| 5.1.4 | VAPOR PROTECTIVE, with NFPA 1991 WMD Chemical / Biological Protection; NOTE: This item DOES satisfy requirement in 5.1.1. With year 2005 edition of 1991, WMD Chemical Testing is included and automatic. All 1991 compliant suits are WMD Certified. The label does not say this. | Provides for WMD entry. 6 of either type of ensemble, must include gloves, boots to same certification | ONLY Provides for vapor / airborne WMD chemical entry (NOT Industrial Chemicals) NFPA 1991 WMD - OR - NFPA 1994, Class One or Class Two | Must have 6 on hand | X | X |
| The following garments Meet NFPA 1991 + WMD (2005 Edition): | Dupont – Tychem TK 600T, 601T (SEI) Dupont – Responder RS 600T, 601T (SEI) Dupont Reflector 600, 601 (SEI) Lakeland – TK645, TK645W, TK654, TK654W (UL) Saint-Gobain – ONEsuit 1S-A, any size (SEI) Saint-Gobain – ONEsuit 1S-F, any size (SEI) Trelleborg – Trelchem VPS,- CV, VP1 (SEI) Trelleborg – Trelchem HPS,- CV, VP1 (SEI) Trelleborg – Trelchem HPS VP1 ET (SEI) Trelleborg – Trelchem LPS (SEI) Trelleborg – Trelchem EVO Trelleborg – Trelchem NEO | | | | | |
| 5.1.5 | VAPOR PROTECTIVE, with NFPA 1994 WMD Chemical / Biological Protection. NOTE: This item DOES NOT satisfy Industrial requirement in 5.1.1 NOTE: See Chart Below for MFG Listings | | | | | |
| The following garments meet NFPA 1994, Class 2 (2007 Edition): | Blauer – Homeland HZ9420 (SEI) Dupont – Tychem TK 612T, and 613T (SEI) DuPont – Tychem BR 611 (SEI) DuPont – Tychem LV 611 (SEI) Dupont CPF-4 – LOST CERTIFICATION Geomet Tech – DTAPS 10-260 any size (SEI) Geomet Tech – DTAPS 70-300 (SEI) Kappler USA – Zytron Z5HTN C2 (SEI) Lakeland Ind. – TK648, TK648W (SEI) Lakeland Ind. – TK658, TK658W (SEI) Lion Apparel – Tactix, MT94-CMTM, any (SEI) Lion Apparel – ICG (SEI) | | | | | |
| 5.1.6 | PRESSURE TEST KIT: Usually supplied by garment manufacturer, includes Magnehelic gauge. | One | NFPA 1991; ASTM F-1052 | | | NA |

| | | | | | | |
|---|--|-------------------|--|--|--|--|
| | | | | | | |
| 5.2.1 | LIQUID SPLASH PROTECTIVE, NFPA 1992; For industrial chemical splash protection, jumpsuit or multi-piece ensemble. | | | | | |
| The following garments meet NFPA 1992 (2005 Edition): | <p>Ansell Healthcare – 8017, 8057 (UL) Blauer – Defender HZ9420 (SEI) Athena-Goetzloff – EuroLite 92001-05 (UL) Kappler USA – Zytron 300 Z3H427 or 28 (SEI) Lac-Mac (Canada) – 763A, 707A+706A (UL) Lakeland ChemMax– C3T165N (UL) Lion Apparel – Tactix MT-94 CMTM10 (SEI) Lion Apparel – Tactix MT-94 CMTM20 (SEI) Lion Apparel – Tactix MT-94 CMTM30 (SEI) Lion Apparel – Tactix MT-94 CMTM40 (SEI) Lion Apparel – Tactix MT 94 CMTM90 (SEI) Lion Apparel – ICG (SEI) Morning Pride – 21xC, 13xC, 46xC, 21xC (UL) Southern Mills – CSP (SEI) LOST CERTIFICATION – DuPont Thermo-Pro</p> | | | NFPA 1992 Liquid Splash | | |
| 5.2.2 | LIQUID SPLASH PROTECTIVE, with NFPA 1994 Class 3 WMD Chemical / Biological Protection; For WMD/Biological splash protection, jumpsuit or multi-piece ensemble; Provides a LESSER level of protection than NFPA 1992 garment; NOTE: This item meets requirement of 5.2.1 | 6, of either type | | | | |
| The following garments Meet NFPA 1994, Class 3 (2007 Edition): | <p>CLASS 2: (Higher rating than Class 3) Blauer – Defender HZ9420 (SEI) DuPont – Tychem BR-611 Yellow (SEI) DuPont – Tychem LV-611 Green (SEI) DuPont – Tychem TK-612T, 613T (SEI) Geomet – DTAPS 10-2600 (SEI) Kappler – Zytron 500- Z5HTN C2 (SEI) Lakeland – TK648, 648W, 658, 658W (SEI) Lion Apparel – Tactix MT-94 CMTM10 (SEI) Lion Apparel – Tactix MT-94 CMTM20 (SEI) Lion Apparel – Tactix MT-94 CMTM30 (SEI) Lion Apparel – Tactix MT-94 CMTM40 (SEI) Lion Apparel – Tactix MT 94 CMTM90 (SEI) Remploy – Frontliner PL001730, 1830, 2310, 2410 Saint-Gobain – OneSuit Pro 1S-P (SEI) CLASS 3: Blauer Mfg – Defender WZ9430 (SEI) GORE – Chempak SPFA 1994.3 (SEI) GORE – Chempak UBFA 1994.3 (SEI) LOST CERTIFICATION – CPF-4</p> | | | NFPA 1994, Class 3 Liquid Splash (Class 2 also Acceptable, higher standard) | | |

| | | | | | | |
|-------|--|--|--|--|--|--|
| | | | | | | |
| 6.1.1 | REPLACEMENT GLOVES, Vapor Protective; Ample supply of manufacturer's recommended or supplied "outer glove". The "inner glove" is listed in item # 6.1.3 below. | 1 replacement set for each suit | | NFPA 1991 | | |
| 6.1.2 | REPLACEMENT GLOVES, Liquid Splash Protective: Ample supply of manufacturer's "outer glove". The "inner glove" is listed in item # 6.1.3 below. Gloves for 6.1.1 will satisfy. ALSO: The following gloves have attained NFPA 1992 certification: Saint-Gobain – OneGlove #22402 to 22414 (SEI) GORE – Chempak Ultra G9492 (SEI) Best Mfg – Nitril-Solve 717, 727, 730, 737, 747 (Nitrile) (UL) Best Mfg – Chloroflex #1823, #723, and N-8 (Neoprene) (UL) American Fireware - Superglove SGWMES, SGKCW (UL) | 1 replacement set for each suit on hand; | | NFPA 1992 OR Mfr. Model # must be UL or SEI listed | | |
| 6.1.3 | UNDER-GLOVE; Chemical resistant disposable type used as an "inner glove"; (i.e. Silvershield, 4H, Barrier) | 24 Pair | | | | |

| | | | | | | |
|-------|---|---------------------------------|--|--|--|--|
| 6.1.4 | HIGH TEMPERATURE Protective Glove; One minute direct contact protection for 800 ° F to 1,000 ° F surface temperatures; Usually made of Nomex / Kevlar / PBI. (i.e. Superior Flextra, WS Safety, Tempo, Thermo-best) | 2 Pair | | | | |
| 6.1.6 | ULTRA-COLD Protective Glove; Gauntlet length not less than 16" (to elbow); Provides 1 minute continuous contact for liquids to (minus) - 260 ° F. (Usually made of Teflon/GorTex blend). | 2 Pair | Gauntlet to elbow (16" minimum) | | | |
| | | | | | | |
| 6.2.1 | BOOTS, CHEMICAL RESISTANT; Must meet appropriate NFPA Standard – 1991 for Vapor protective, 1992 for Liquid Splash protective. Must be "stamped", or certification marking on package. | 1 pair for each assigned member | NFPA 1991 or NFPA 1992 or NFPA 1994; and ANSI Z-41 | | | |
| | The following boots meet NFPA 1991 (2005 Edition): OnGuard – Hazmax 87012, 87015, 87007 (SEI) Tingley – HazProof 82330 (SEI) (CAUTION- Tingley 82331 has no label) (SEI) | | | | | |
| | | | | | | |
| 6.4.1 | UNDERGARMENT, FIRE RESISTANT; Jumpsuit style (Nomex, PBA, Kevlar) | 1 for each assigned member | NFPA 2112 or 1975 or 1977 | | | |
| | The following Undergarment jumpsuits meet NFPA 2112 Bulwark Apparel – #CNB2, 3, 5, 6 & CNC 2, 6 (UL) DuPont – NL 149S, or Deluxe 100 (UL) Lakeland - # C011, C021 Topps Apparel – Model CO-07-XXXX WorkRite – 110NX, 111NX, 112NX, 116NX, 130NX | | | | | |

| | | | | | | |
|---|--|--------------------|--|---------------|---------------|---------------|
| | | | | | | |
| | | | | | | |
| 7.1.4 | REGULATORY TYPE: <u>Government Codes; Standards</u> – Printed or Electronic: See Appendix D, Chart # 5 | | 1 each of: CFR 49 that contains Sections 1 to 199 CFR 29 that contains Section 1910.120; NFPA standards 472, 1991, 1992, 1994 and 2112 | | | |
| 7.1.5 | REGULATORY TYPE, Printed or electronic: <u>Response Guidelines</u>, Local, Regional, State | | 1 copy – Local Response Plans 1 copy – Op. Area Resp. Plan 1 copy – OES HMICP | | | |
| 7.2 Electronic Reference Sources, Industrial and WMD Chemicals | | | | | | |
| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
| 7.2.3 | SPECIALTY TYPE, Electronic See Appendix D, Chart # 9 (i.e. Rail tank car, pesticides, incompatible chemicals) | 1 Program | Some commercial electronic data platforms have 2 or more of these databases included as separate files | | | |
| 7.2.4 | WMD Chemical / Biological Substances; Electronic: See Appendix D, #10 | 1 Program | | | | |
| 7.3 Plume Air Modeling, Program Support | | | | | | |
| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
| 7.3.1 | AIR MODELING, Database Software (i.e. Cameo, Radian, or equal) | 1 Program | | | | |
| 7.3.2 | AIR MODELING, Overlay / Plume Display Software (i.e. Aloha, Radian, Charm, Safer, EIS, ADASHI, or equal) | 1 Program | | | | |
| 7.3.3 | AIR MODELING, Mapping (i.e. MarPlot, G.I.S., MapInfo, or equal) | 1 Program | | | | |

| | | | | | | |
|--------|---|---------------------|---|--|--|--|
| 7.4.1 | COMPUTER: Desktop or laptop; | 1 Unit as described | | | | |
| 7.4.16 | SOFTWARE, PROTECTION: Protection for: 1) Viruses; 2) Trojan Horse; 3) Spyware; 4) Spam; 5) Intrusion Detection | 1 Protective setup | Combination of software and/or hardware to provide firewall | | | |

8. SPECIAL CAPABILITIES

8.1 Advanced Technologies, Vision, Heat, Sound

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|--|-------------|---|--------|--------|--------|
| 8.1.1 | LIGHT AMPLIFICATION, SCOPE, BASIC: Night Vision, monocular or binocular | 1 | Generation II or better Technology | | | |
| 8.1.8 | INFRA-RED, SCOPE, Temperature Sensing Only: Hand-held with direct temperature reading display, nominal -25 ° F to +1,000 ° F. (i.e Omega Scope, Cole Palmer, Raynger) | 1 | NIST Certified (National Institute of Standards and Technology) | | | |
| 8.1.15 | SOUND SENSING, LEAK DETECTION, Ultra-Sonic: Detects harmonic sounds of escaping gas down to 30 dB, nominal frequency 15 to 100 kHz.. (i.e. SPer Scientific, Ex-Tech, Quest, Amprobe, SKF, Robinair, SDT.) | 1 | NIST Certified | | | |
| 8.1.16 | CAMERA, VIDEO, Digital; Hand-held color video with microphone, might have built-in compass, timer; (i.e. Search Systems) | 1 | | | | |

8.2 Advanced Technologies, Weather, GPS

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|--|---|-------------------------------------|--------|--------|--------|
| 8.2.1 | WEATHER STATION, Basic Kit, complete; Wind t 100 mph; Barometer +/- 3 mBars, air temp -20 to 120 degrees F, internal compass, humidity to 100%. | 1 complete kit: Either one as describe will suffice | | | | |
| 8.2.2 | WEATHER STATION, Wireless Digital Support; Advanced version enhances above with digital transmitter to host computer 5 miles. | | | | | |

9. INTERVENTION

9.1 Chemical Intervention

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|---|--|--|--------|--------|--------|
| 9.1.3 | ENCAPSULATING SPREADABLE POWDER – General Purpose Non-Clay Based, suitable for Pesticides and General Purpose; Absorbs polar and non-polar (water and hydrocarbons); Nominal size 5 to 16 lb bag or 5 to 10 Lbs; (i.e. X-SORB Super Absorbent, X-SORB II Encapsulator, WYK SuperSorbent; Enviromet KT; Chem-Sorb; Aqua Biber by Imbiber) | An amount sufficient to absorb or encapsulate a 5 gallon spill | OSHA 29CFR 1910.119 (Non-Clay Based absorbs pesticides – Clay-based types do not, i.e. Kitty Litter, diatomaceous earth, etc.) | | | |
| 9.1.4 | ENCAPSULATING SPREADABLE Powder - Formaldehyde; Nominal size 2 to 5 gallon pail kit or 5 to 10 Lbs, granular, spreadable (i.e. Clift Industries, SpillFyter, Spill-X-FP; Aqua Biber). | An amount sufficient to absorb or encapsulate a 5 gallon spill | | | | |
| 9.1.5 | ENCAPSULATING SPREADABLE POWDER – Non-Polar Solvents; Granular, spreadable; For body fluids, organic or hydrocarbon non-polar solvents, oils, oil base poisons; Nominal size 2 gallon pail; (i.e. Oil Sponge Premium; Oil Sponge GP; LSS Universal Gel Sorbent; X-SORB Edge, X-SORB Oil Select, Spill-X-S, Imbiber Beads) | An amount sufficient to absorb or encapsulate a 5 gallon spill | EPA RCRA Burial Regulations (Solidifies into an acrylic polymer) | | | |

| | | | | | | |
|--------|---|--|--|--|--|--|
| 9.2.1 | ABSORBENT NON-POLAR SOLVENT, Pads or Roll; Repels polar (water); absorbs non-polar solvents (hydrocarbons, some Freon liquids, carbon tet); Nominal size 15" x 18" pads or rolls | 150 square feet of coverage | 40CFR 300.915(g) | | | |
| 9.2.2 | ABSORBENT GENERAL PURPOSE or POLAR SOLVENT, Pads or Roll; Absorbs polar (water, acids, alkalis, benzene ring solvents); If General Purpose also will absorb contaminated water. Nominal size 12" x 18" pads or rolls. | 150 square feet of coverage | 40CFR 300.915(g) | | | |
| 9.2.3 | ABSORBENT NON-POLAR SOLVENT, MINI-BOOMS (Pigs, Socks); Repels polar (water), absorbs non-polar (hydrocarbons, oils, some Freon liquids, carbon tet); Nominal Dia. 3" to 6", by 4 to 12 feet each. | 40 feet total length | 40CFR 300.915(g) | | | |
| 9.2.4 | ABSORBENT GENERAL PURPOSE or POLAR SOLVENT, MINI-BOOMS (Pigs, Socks); Absorbs polar (water, acids, alkalis, benzene ring solvents); Nominal Dia. 3" to 6", by 4 to 12 feet each. | 40 feet total length | 40CFR 300.915(g) | | | |
| 9.2.5 | ABSORBENT NON-POLAR SOLVENT, PILLOWS; Repels polar (water), absorbs non-polar solvents (hydrocarbons, oils, some Freon liquids, carbon tet); Nominal size 2 to 3 gallon absorption capacity each pillow. | 10 Gallon Absorption | 40CFR 300.915(g) | | | |
| 9.2.6 | ABSORBENT GENERAL PURPOSE or POLAR SOLVENT, PILLOWS; Absorbs polar (water, acids, alkalis, benzene ring); Nominal size 3" to 6" Dia., 2 to 3 gallon absorption capacity each pillow. | 10 Gallon Absorption | 40CFR 300.915(g) | | | |
| 9.2.8 | MERCURY KIT, Clean up; Mercury absorbing sponges, and approx 500 gram container of mercury absorbing powder (i.e. Lab Safety, Mercon) | 1 Kit | Hand operated suction pump is now optional | | | |
| 9.3.10 | PATCH AND REPAIR, PIPE, LIQUIDS, Basic Kit: Single or dual bolt steel pipe clamps with rubber sheeting lining; Ten or more different pipe sizes exist ranging from ½" dia to 4" dia; (i.e. Lab Safety # 35156, Edwards & Cromwell "C-2") | 1 Kit (I.E. Edwards & Cromwell Kit "C-2") | | | | |
| 9.3.13 | CLAMP, PIPE, GAS, Line, Mechanical; Used for squeezing shut natural gas lines up to 2" dia. (i.e. PG&E, Mustang) | 1 Device | | | | |
| 9.3.15 | PATCH, PIPE, LIQUID, Pneumatic, Flange: Heavy duty rubber bandage device, nominal 8" x 36", slips over leaking pipe from 2" to 8" dia, then inflated. Requires air source, air hose, regulator (i.e. Vetter) | 1 Kit: | Air source, hose, regulators, and ratcheting straps from one kit can be used for another kit (Do not need to duplicate) | | | |
| 9.3.16 | PATCH, PIPE, LIQUID, Pneumatic, Bandage: Heavy duty rubber bandage device, nominal 8" x 36", slips over leaking pipe from 2" to 8" dia, then inflated. Requires air source, air hose, regulator (i.e. Vetter #1500013900 or #1500014000) | Either one will satisfy requirement (9.3.16 is recommended) | | | | |
| 9.3.17 | PATCH, TANKER, LIQUID; Foam or plastic (non-inflatable) pad nominal 7" x 12", with 6 feet ratchet strapping for 55 gallon drum leaks, AND 25 feet strapping for highway tankers. (i.e. Lab Safety, Edwards & Cromwell Kit "F" or "AE") | 1 Complete Kit (I.E. Edwards & Cromwell Kit "AE" or "F") | | | | |
| 9.3.18 | PATCH, TANKER, LIQUID, Side Patch: Pneumatic operated inflatable leak sealing patch or bag, with ratchet straps; Nominal size 24" x 12". Requires air source, air hose, regulator. (i.e. Vetter 150000102 or 1500011101) | 1 Kit: | | | | |
| 9.3.19 | PATCH, TANKER, LIQUID, Side, Drainage Control; Identical to previous, but is heavy duty with internal plumbing for bleed-off control. (i.e. Vetter #1500005301, or 1500018301, or 1500000102) | Either one will satisfy requirement | | | | |
| 9.3.24 | PATCH, DRUM, LIQUID, Pneumatic, Kit; Small rubber inflatable pads of nominal 4" x 4"; 4" x 9"; and 7" x 7"; Requires ratcheting straps, air source, air hose, regulator to inflate and stop leak; (i.e. Vetter # 1500009400) | 1 Kit | Acceptable if inflatable pads included in 9.3.17 | | | |
| 9.3.34 | PLUGS, TAPERED, LIQUID, Pneumatic; Enhances kit in item # 9.3.15; Inflatable round tapered rubber plugs 4" nominal dia; Narrow wedge tapered from 2 ½" wide to 4 ½" wide. Requires air source air hoses, regulator; (i.e. Vetter # 1500019500 or 1500009600) | <u>Consists of:</u> Set of at least 3 sizes | Air source, hose, regulators, and ratcheting straps from one kit can be used for another kit (Do not need to duplicate) | | | |
| 9.3.35 | PLUGS, EXPANSION, LIQUID, Standard, Kit; Plumber style expansion plug with wing nut. Sizes range from 1" to 4" for drains or open butt pipe. (i.e. hardware store) | Mix or match set of at least 7 different sizes, | | | | |

| | | | | | | |
|--------|---|-----------------|--|--|--|--|
| 9.3.36 | PLUGS, EXPANSION, LIQUID, Vented, Kit; Same as # 9.3.35 but vented or has drain valve, some with threaded end. (i.e. Cromwell) | of either style | | | | |
|--------|---|-----------------|--|--|--|--|

10. **DECONTAMINATION**

10.1 Ground Protection

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|---|-------------|-------------------------------------|--------|--------|--------|
| 10.1.5 | SHOWER, GROSS DECONTAMINATION; Homemade or commercial; water supply by garden hose or FD 1 ½" hose connection, fits inside of the "Catch Basin". | 1 System | | | | |
| 10.1.6 | EYE WASH, Station: Portable, nominal 7 gallon, with 0.4 gpm flow rate. | 1 | ANSI Z-358.1 (2004) | | | |

10.2 Support Tools for Decontamination

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|---|---|-------------------------------------|--------|--------|--------|
| 10.2.2 | BRUSHES, LONG HANDLE, SOFT BRISTLE: Toilet type: nominal 16" long, with plastic bristles | 4 | Must be SOFT bristle | | | |
| 10.2.4 | BRUSHES, SHORT HANDLE, Rat Tail; Carpenter or wood-worker type, synthetic bristles are best | 2 | Must be SOFT bristle | | | |
| 10.2.5 | BRUSHES, CAR WASH TYPE; Long Handle; Soft bristled wand type brush, nominal extendable length to 3 feet, may come with garden hose connection. | 2 | | | | |
| 10.2.15 | SOAP, SOFT, Hypoallergenic, Liquid, Biodegradable | 1 pint | Not Detergent | | | |
| 10.2.18 | PERSONAL PROPERTY TRACKING Kit; To consist of property tracking forms, tags, receipts, sealable baggies, labels to document personal property collected (i.e. jewelry, wallets, pagers, cell phones, purses, documents, glasses) | Sufficient to manage 12 individuals minimum | | | | |

10.3 Water Supply, Distribution Tools

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|--|------------------|-------------------------------------|--------|--------|--------|
| 10.3.2 | MANIFOLD, HEAVY DUTY; All metal construction with 1-1/2" female fire hose inlet coupling, and four to six ¾" garden hose discharge ball gates; Tested to 250 psi (i.e. Aramsco) | 1 of either type | | | | |
| 10.3.3 | MANIFOLD, LIGHT DUTY; Plastic PVC construction, and same as above. | | | | | |

10.4 Collection

| Inv. #: | Item Name and Description | Requirement | Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|--|---|--------------------------------|--------|--------|--------|
| 10.4.4 | DEBRIS COLLECTION UNIT; Light weight polyethylene drum, 35 to 65 gallon capacity, or collapsible mylar drum liners. | 1 | | | | |
| 10.4.5 | DRUM, CONTAINMENT UNIT, 85 to 95 Gallon; Steel or polyethylene drum, removable bolt lid, for contaminated clothing collection | Must have <u>at least One</u> to support Salvage, Transfer, and Containment operations. | One of either 10.4.5 Or 10.4.6 | | | |
| 10.4.6 | DRUM, OVER-PACK UNIT, 110 Gallon; Heavy duty polyethylene drum with screw lid. | | | | | |

11. COMMUNICATIONS

11.1 Radio

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|--|---|---|---------------------|---------------------|-------------|
| 11.1.1 | RADIO, PORTABLE, Intrinsically Safe (I.S.); Walkie-Talkie hand-sets. UL or FM label must be attached to authenticate certification. | 1 for each assigned member | Intrinsic to UL #913 Class I, II, III Division 1 Label must be on Walkie-Talkie | Must have 7 | Must have 5 | Must have 5 |
| 11.1.4 | RADIO, PORTABLE, In-Suit Communications; Attachable hardware to item # 11.1.1, with boom mic (throat, bone, ear, or SCBA facepiece), earphone system, remote "Push-To-Talk" switch. | 6 – Type I 4 – Type II 4 – Type III | | Must have 6 systems | Must have 4 systems | |
| 11.1.6 | RADIO, PORTABLE, Interchangeable battery, Intrinsic | 2 for each portable unit | Intrinsic to UL # 913 | | | |

11.2 Cellular Phone

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|--|---------------|-------------------------------------|--------|--------|--------|
| 11.2.1 | PHONE, CELLULAR; Priority access service capable; CPAS, BROADBAND, PCS and ROAMING enabled. | 1 per Company | IEEE 1512.3 IEEE 269 | | | |

12. RESPIRATORY PROTECTION

12.1 Self-Contained

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|--|---------------------------------------|---|-------------|-------------|-------------|
| 12.1.1 | SCBA, COMPLETE, 1 Hour Rating, with bottle; NIOSH and NFPA certified for structural use. | 1 for each assigned member | NFPA and NIOSH Label on frame | | Must have 5 | Must have 5 |
| 12.1.2 | SCBA, COMPLETE, WMD CBRN, 1 Hour Rating; NFPA certified for structural use, and NIOSH certified for WMD CBRN use. | 1 for each assigned member | NFPA and NIOSH CBRN Label on frame OR regulator | Must have 7 | | |
| 12.1.3 | MASK, FULL-FACE, STRUCTURAL; NFPA and NIOSH compliant for structural use. | 1 for each assigned member | NFPA Structural | | Must have 5 | Must have 5 |
| 12.1.4 | MASK, FULL-FACE, WMD CBRN; NFPA certified for structural use, and NIOSH compliant for WMD CBRN use. | 1 for each assigned member | NFPA Structural and NIOSH WMD CBRN | Must have 7 | | |
| 12.1.7 | BOTTLE, Spare; Replacement, same type and size | 1 spare bottle for each assigned SCBA | DOT | Must have 7 | Must have 5 | Must have 5 |

12.2 Air Purifying Respirator

| Inv. #: | Item Name and Description | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
|---------|--|--------------------------------------|-------------------------------------|------------------|--------|--------|
| 12.2.1 | MASK and UNIT, APR, INDUSTRIAL; Single or dual cartridge style, certified for use in industrial chemical threats only. | 1 for each assigned member | NIOSH | Must have 7 | | |
| 12.2.2 | MASK and UNIT, APR, CBRN; Single or dual cartridge style, certified for use in CBRN threats; NOTE: Combination INDUSTRIAL and CBRN certified is acceptable for both # 12.2.1 and 12.2.2 | 1 for each assigned member | NIOSH CBRN Label on Canister | Must have 7 | | |
| 12.2.5 | CARTRIDGES, APR or PAPR, INDUSTRIAL; Cartridges certified ONLY for industrial chemical threats. | Multi-gas cartridge set for each APR | NIOSH | Must have 7 sets | | |
| 12.2.6 | CARTRIDGES, APR or PAPR, CBRN; Cartridges certified ONLY for WMD CBRN threats | CBRN cartridge set for each APR | NIOSH - CBRN | Must have 7 sets | | |

| 13.1.16 | ZONE MARKING, Kit; Barrier tape 1000 feet rolls – yellow; 1000 feet red; Railroad Chalk Sticks red and yellow, powdered chalk yellow and red 12 to 16 oz dispensers; Carpenter’s crayons, yellow and red. | 1 Kit | Barrier Tape Yellow – 1000’ Barrier Tape Red – 1000’ Powder Chalk – Yellow Powder Chalk – Red Chalk Sticks – Yellow Chalk Sticks – Red Carpenter Crayons – Yellow Carpenter Crayons - Red | | | |
|---------|--|---|--|--|--|--|
| 13.1.18 | SCOPE, Spotting: Adjustable telephoto spotting scope or binoculars. | 1 | | | | |
| | | | | | | |
| | | | | | | |
| 13.2.11 | PLIERS, LOCKING, Vice Grip Type, Kit; At least any 4 representing <u>four different types</u> or <u>four different sizes</u> : Adjustable chain, welding clamp, pipe clamp, curved jaw, straight jaw, long nosed, “C” clamp style, ultra-long “C” clamp style, or sliding bar | 1 Kit of 4 4 Different Types And/Or 4 Different Sizes | Non-Sparking Acceptable (# 13.3.16) Adjustable chain Welding clamp Pipe clamp Curved jaw Straight jaw Long nosed “C” clamp style Ultra-long “C” clamp style Sliding bar | | | |
| 13.2.27 | TAPE, MEASURING, Retractable, Metal (or plastic): 24’ min. | 1 | | | | |
| 13.2.28 | TAPE, MEASURING, Re-Wind; Cloth, Tyvek, Plastic (non-metallic, non-conductive), 50 feet or longer | 1 | | | | |
| 13.2.32 | STRAPS, RATCHET, Tie down; Nominal 1” x 20’, 1000 lbs rating. NOTE: Strapping in item # 9.3.17 may suffice. | 2 Sets | NOTE: Strapping in item # 9.3.17 may suffice. | | | |
| 13.2.33 | STOP WATCH: Wind-up or battery, goes “tick-tock”. | 1 | | | | |

| 13.3.1 | GROUNDING SYSTEM and BONDING: To Consist Of: | | | | | |
|----------|--|--|---|--|--|--|
| 13.3.1A | UNIT 1: Grounding Cable – Insulated or non-insulated 3/16” or better carbon steel, 75’ minimum with no section less than 10’; Equipped with heavy duty “C” clamps, screw bolt clamps, or pin-point clamps on both ends. | Not less than 75’ Total | | | | |
| 13.3.1-B | UNIT 2: Grounding Rod – One (1) of approximate length 4 to 6’ minimum, and approximate diameter of 3/8” to 1/2” copper. | Not less than 4’ | | | | |
| 13.3.1-C | UNIT 3: Ground Resistance and Bonding Verification Detection Capability – Analog or digital readout, Intrinsically Safe, range at least 0 – 200 ohm, 3-wire resistance hookup minimum. | NOTE: Resistance, and Bonding Detection may require two separate units | Resistance detection and Bonding verification is an OPTIONAL item. | | | |
| 13.3.3 | VESTS, I.C.S., Haz-Mat Group: For all Group positions. | 1 Set | ANSI 107 and FIRESCOPE | | | |
| 13.3.6 | NON-SPARKING, Hammer, Sledge: 7 to 10 pound. | 1 | | | | |
| 13.3.7 | NON-SPARKING, HAMMER, Claw: 16 to 24 oz. | 1 | | | | |
| 13.3.10 | NON-SPARKING, SCREWDRIVER, CHISEL, Kit; Any 3 sizes of: Small, medium, large, extra-large. | 1 Kit of 3 different | | | | |

| | | | | | |
|---------|---|----------------------|--|--|--|
| 13.3.11 | NON-SPARKING, SCREWDRIVER, PHILLIPS, Kit; Any 3 sizes of: # 1, #2, #3, #4. | 1 Kit of 3 different | | | |
| 13.3.12 | NON-SPARKING, PLIERS, ORDINARY, Utility: With square blunt end, any size | 1 | | | |
| 13.3.13 | NON-SPARKING, PLIERS, WIRE, Side Cutting: | 1 | | | |
| 13.3.14 | NON-SPARKING, PLIERS, LONG-NOSE, Needle: | 1 | | | |
| 13.3.17 | NON-SPARKING, WRENCH, BUNG, Universal; Able to function on 5 or more different cap designs. | 1 | | | |
| 13.3.18 | NON-SPARKING, WRENCH, CRESCENT, Adjustable, Kit; Any 2 of the following: 12", 15", 22", 24". | 1 Kit of 2 | | | |
| 13.3.20 | NON-SPARKING, WRENCH, PIPE, Adjustable, Kit; Any 2 of: House – 16"; Standard – 18"; Medium – 22"; Large – 28". | 1 kit of 2 | | | |
| 13.3.26 | NON-SPARKING, KNIFE, PUTTY, Scraping; 2" wide (Lexan plastic is acceptable) | 1 | | | |
| 13.3.27 | NON-SPARKING, SHEARS, Cutting: Suitable to cut sheet metal, heavy carpet, thick plastic sheeting. | 1 | | | |
| 13.3.30 | REFRIGERATOR, UTILITY, Small: Onboard response unit. | 1 | | | |

ITEMS TO BE "SPOT-CHECKED":

| SP-01 EQUIPMENT SELECTED FOR SPOT-CHECK | | | | | | |
|--|------------------|--------------------|--|---------------|---------------|---------------|
| SEL Inventory Number | Item Name | Requirement | Function, Certification Or Standard | Type 1 | Type 2 | Type 3 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

END