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## Fire & Rescue Division Hazardous Materials Section

### BULLETIN # 1.0

REVISED: 8 / January / 2009

## UP-DATE INFORMATION REGARDING REVISION TO HAZ-MAT STANDARDIZED EQUIPMENT LIST

>> 2009 Edition <<

[ For Inspection Purposes Only ]

This document IS NOT TO BE USED nor INTERPRETED TO BE an official announcement of changes to the inventory items as described in the *FIRESCOPE HAZARDOUS MATERIALS STANDARDIZED EQUIPMENT LIST (SEL)*. Official changes to the SEL must be done through a recognized revision process by FIRESCOPE.

This Bulletin # 1.0 captures for documentation purposes all changes made during the [2009 revision cycle](#) of the SEL. It is based upon findings at the conclusion of Hazardous Materials Team Typing inspections, and the final decision of acceptance regarding all changes made by the FIRESCOPE HazMat Working Group. It has been noted that many FIRESCOPE SEL inventory items need updating, language alteration, or recommendations for deletion. During this [2009 revision cycle](#) there were many influencing factors, including the discovery that some items are no longer available from manufacturer, or that Standards Language (such as NFPA) has changed performance requirements, or that technology has advanced to a degree that it has made some stipulated requirements moot (i.e. "FAX" capability vs "SCAN" capability, "floppy discs", and "Polaroid cameras"). Monitoring and documenting these recommended changes will be a continuous and on-going process for each revision cycle, and changes to the SEL for each specific revision cycle will be captured in a separately numbered BULLETIN.

This list captures all notations for these changes and/or the principle language additions or changes, and they are indicated in **red type** for the [2009 edition](#) of the SEL.

# Haz-Mat Standardized Equipment List Revision – 2009 Edition

Per FIREScope HazMat Working Group 1 / 28 / 09

Inv #	Current S.E.L. Item	Proposed Revisions, Comments
1.2.8	WMD CHEMICALS, Water Analysis, Test Kit	Military M272 has been updated and a new <b>M273</b> kit will be acceptable.
1.2.9	WMD CHEMICALS, Analysis, Test Kit	Military M18A2 has been updated and a new <b>M18A3</b> , kit will be acceptable. FURTHER, the <b>CAD Kit C-2</b> will also be acceptable for this SEL item.
2.3.3	HALOGEN GASES, Gas Detection, Electronic	Must be at least <b>Chlorine</b> .
2.3.4	PHOSPHINE, Gas Detection, Electronic	Must be <b>continuous monitoring</b> , not just “spot check”.
3.1.5	PIPETTE, Transfer, 5-8 mil cap (Small)	Pkg of 100 total, <b>either – or (not 100 of each), mix or match</b>
3.1.6	PIPETTE, Transfer, 20 ml cap (Large)	
3.1.20	FUNNELS, Disposable, Plastic or Glass.	Acceptable will be <b>Plastic, Glass, or Metal (Disposable or Re-Useable)</b> .
3.3.2	SAMPLE JARS, Sterile, 4 & 8 oz.	Total required reduced <b>from 24 to 12 on hand</b> .
3.3.19	PHOTO, ASSESSMENT and RECONNAISSANCE KIT, Polaroid, Instamatic film type	Newer <b>pocket digital camera is acceptable</b> in lieu of instamatic film type (which is being discontinued by manufacturers) if they can <b>download easily to the on-board computer</b> and print pictures. <b>ALSO, only one required, (Either-Or), not both.</b>
3.3.20	PHOTO, ASSESSMENT and RECONNAISSANCE Kit, High-end digital 4 megapixel or greater	
4.1.2	BETA SURVEY, Radiation Monitoring	<b>As of 2007 edition of SEL, is REQUIRED “R” FOR Type III.</b>
5.1.2	VAPOR PROTECTIVE, NFPA 1991 Flash Fire	<b>As of 2007 edition of SEL, changed from “R” to “OPT” for Type I and Type II.</b> (Requirement no longer needed, nor available)
5.1.4	VAPOR PROTECTIVE, NFPA 1991 WMD upgrade for TYPE I Team – <b>Effective 2005 all NFPA 1991 suits meet WMD upgrade automatically.</b>	NFPA 2005 edition of Standard 1991 <b>automatically includes and adds WMD chemicals</b> in the standard battery of Industrial chemicals. Further, SUITS purchased after 2005 NFPA publication date <b>WILL NOT STATE ON THE LABEL</b> (unfortunately) that post-2005 suit does indeed meet this WMD upgrade.
5.1.5	VAPOR PROTECTIVE, NFPA 1994, WMD Protection ( <b>Class 1 deleted from standard</b> )	NFPA 2005 edition of Standard 1994 upgraded performance of <b>CLASS TWO suits</b> to meet this WMD requirement. Therefore, PRE-2005 CLASS ONE suits will comply, and POST-2005 CLASS TWO suits will meet this requirement (Check the label).  FURTHER, post-2005 NFPA CLASS TWO suits <b>DOES SATISFY the WMD protection requirement</b> of SEL item # 5.1.4 and is acceptable for that upgrade.
6.1.1	REPLACEMENT GLOVES for NFPA 1991 suit	In order to MAINTAIN total suit ensemble integrity and manufacturer’s warranty, replacement outer gloves for NFPA 1991 suits <b>MUST come from or be RE-ORDERED from the Manufacturer of the Suit ensemble.</b> <u>Other “off-the-shelf” generic replacement gloves are NOT acceptable.</u>
6.1.2	REPLACEMENT GLOVES, Liquid Splash Protective, for NFPA 1992 suit	Replacement outer gloves for NFPA 1992 suits may be of the “off-the-shelf” generic replacement type <b>BUT ONLY THAT TYPE AS RECOMMENDED BY THE MANUFACTURER.</b>
6.4.1	UNDERGARMENT, FIRE RESISTANT	In addition to requirement to meet NFPA 2112, <b>alternate NFPA 1975 or 1977 standards are acceptable.</b>
7.1.4	REGULATORY TYPE, Government Codes, Ordinances, Printed	<u>Electronic versions</u> on disc or hard-drive of these documents <b>will be acceptable.</b>
7.4.1	COMPUTER: Desktop or laptop, mounted in vehicle with battery backup.	<u>Inspection will document a basic computer</u> only. Additional hardware capabilities to be addressed in separate SEL inventory entries, such as: <ul style="list-style-type: none"> <li>◆ Ports to support “Printer/Scanner” addressed in SEL items # 7.4.2 through 7.4.5 (below);</li> <li>◆ Access to “Internet” requirement addressed in SEL item # 7.4.6 (below);</li> <li>◆ A “Graphics Chip” enhancement or “Graphics Board” is addressed in SEL item # 7.4.8 (as described in SEL).</li> <li>◆ A “General Packet Radio Service (GPRS)” modem is addressed in SEL item # 7.4.9 (as described in SEL).</li> <li>◆ “Floppy disc drive” addressed in SEL Item # 7.4.10 (below);</li> <li>◆ “CD” and “DVD” requirement addressed in SEL Item # 7.4.11 (below);</li> <li>◆ “USB” or other external hardware connectivity addressed in SEL Item # 7.4.12 (below).</li> </ul> Inspection will <b>no longer require need</b> for one extra <b>telephone modem connection port</b> for Type I and Type II teams.
7.4.3	FAX Capability	<u>Inspection will accept and encourage</u> the <b>substitution of “SCAN” capability in lieu of “FAX”.</b> Complexities with new cellular “digital”

		technology compresses and “looses” data via fax. Therefore <b>SCAN will be acceptable</b> for this SEL item and will be more beneficial and useful.
7.4.3	FAX Capability (To be changed to SCAN)	Has been made <b>REQUIRED for Type 3</b> (Previously “Opt”).
7.4.6	ACCESS To INTERNET, Wireless	Insure that the computer or computer system is <b>“broadband” capable</b> and <b>has an appropriate “wireless internet” device</b> to enable computer to <b>have wireless access to e-mail server</b> via cell phone technology.
7.4.10	HARDWARE, Floppy Disc Drive, 2HD:	Recommend to make “OPT” - Becoming more rare with advent of CD and DVD drives, and USB. If computer has <b>CD/DVD AND USB connections</b> this requirement has been met in lieu of (see also 7.4.11 below).
7.4.11	HARDWARE, CD-Rom or DVD Drive:	Currently required, but inspection will also <b>accept this in lieu of # 7.4.10</b> .
7.4.12	HARDWARE (Computer), <b>USB Connection Capable</b>	At least <b>one extra USB connection</b> is free and compatible for external electronic devices such as flash drives, digital cameras, etc.
7.4.13	SOFTWARE, OPERATING SYSTEM:	Must not be more than <b>two (2) versions old</b> .
7.4.14	SOFTWARE, <del>WORD</del> - DOCUMENT PROCESSING:	a) Must have a word processor type software program that can <b>create basic files or documents</b> such as <b>letters, notes, logs, tables</b> , etc, and that can <b>download and display other imported files</b> such as <b>incident command forms, Incident Action Plans, Site Safety Plans</b> , etc., that are then printable. (i.e. WORD or WordPERFECT or NOTEPAD, etc)  b) Must have a graphics processor type software program that can <b>download and display graphics documents, photos</b> in a variety of graphics file formats. (i.e PAINT or PaintShopPro or Photoshop or equal).
7.4.15	SOFTWARE, <b>DOCUMENT</b> FILE FORMAT CONVERSION:	Show ability to convert word document files and graphics files to at least: <b>.PDF Format</b> <b>.JPG Format (.TIF and .BMP acceptable but are memory hogs)</b>
9.1.3	ENCAPSULATING SPREADABLE POWDER, Pesticides.	Acceptable will be <b>“GENERAL PURPOSE”</b> type Non-Clay based which is suitable for pesticides and for polar and non-polar solvents. “Kitty Litter” and Diatomaceous Earth are <b>clay-based</b> and <b>NOT acceptable</b> for pesticides.
9.1.5	ENCAPSULATING SPREADABLE POWDER, - Solvents	Acceptable will be <b>“NON-POLAR”</b> type for non-polar solvents (not water-based).
9.2.2	ABSORBANT POLAR SOLVENT, Pads or Rolls:	Acceptable will be <b>“GENERAL PURPOSE”</b> type pads or roll that <b>absorbs polar solvents and non-polar solvents</b> .
9.2.4	ABSORBANT POLAR SOLVENT, Pigs or socks,	Acceptable will be <b>“GENERAL PURPOSE”</b> type pigs or socks that <b>absorb polar solvents and non-polar solvents</b> .
9.2.6	ABSORBANT POLAR SOLVENT, Pillows	Acceptable will be <b>“GENERAL PURPOSE”</b> type pillows that will <b>absorb polar solvents and non-polar solvents</b> .
9.2.7	ABSORBANT SPREADABLE POWDER – OILS, Granular spreadable / pourable	<b>This item is repetitious of SEL Item # 9.1.5 and is not considered during inspection. To Be Deleted</b>
9.2.8	ABSORBANT Kit, <b>MERCURY</b>	Inspection <b>will not require the Hand Operated Suction Pump</b> . Not included in most of the commercially available kits.
9.3.15 9.3.16 9.3.17 9.3.18 9.3.19 9.3.24 9.3.34	(Mechanical PATCH kits, all requiring a ratcheting strap system, and / or an air source with regulator)	<b>Only one set or system needed</b> , consisting of an air source, air hose, regulators, and ratcheting straps. <b>(A separate system for each numbered kit is not required unless kits are incompatible.) DO NOT NEED TO DUPLICATE.</b>
9.3.26	PATCH, DRUM, LIQUID, Compression Kit:	<b>Must consist of at least:</b> 6 – tapered rubber plugs of different sizes 2 – ball rubber plugs, each different size 8 – tapered wood dowels representing 8 sizes 2 – “T” bolt patches, each different size 1 – 8” x 12” rubber or foam sheet Assortment of sheet metal screws
9.3.29	PLUGS, <b>TAPERED STOPPER</b> , LIQUID, Compression	<b>Must consist of at least:</b> 1 – 3” diameter tapered plug 1 – 4” diameter tapered plug
9.3.31	PLUGS, BALL or <b>HALF-BALL</b> , LIQUID, Compression	<b>Must consist of at least:</b> 1 – 3” diameter ball or ½ ball plug 1 – 4” diameter ball or ½ ball plug
9.3.32	PLUGS, “T” BOLT, LIQUID, Compression	<b>Must consist of at least:</b> 2 – 3” or larger, square curved plate “T” plug
9.3.33	PLUGS, CONICAL, LIQUID, Drain:	<b>Expand range of size requirement</b> to include nominal 10” to 13” length, and 2 ½” to 8” diameter; Must have 3 to represent three range sizes.

10.1.4	CATCH BASIN	Might be included as part of Item # 10.1.5 inventory of the Gross Decontamination Shower, and if so satisfies this requirement.
10.1.6	EYE WASH, Station: Portable	In order to be in compliance with ANSI Z-358.1, it has to be not less than nominal 7 gallon capacity with 0.4 gpm flow rate.
11.1.1	RADIO, PORTABLE, Intrinsically safe:	UL or FM I.S. Label stating Intrinsically Safe <b>must be on each Walkie-Talkie Unit</b> . Battery also <b>must be of correct specified model</b> in order to be compatible. Cannot "mix and match" non-I.S. component parts.
11.1.3	RADIO, PORTABLE, Headphone Set	Becoming less popular, therefore <b>accept as "OPT"</b> instead of "R"
11.1.6	RADIO, PORTABLE, Interchangeable Battery:	Replacement batteries <b>must be of correct specified model</b> in order to be compatible with I.S. radio.
12.1.8	SUPPORT, UMBILICAL AIR	<b>As of 2007 edition of SEL, changed to "OPT" "OPT" "NA"</b>
13.1.2	SHOVEL, Round Point, Plastic	<b>Change to "OPT"</b> , as it appears to suddenly become hard to find.
13.1.11	MEGAPHONE, Battery Operated, Intrinsically Safe	Non-intrinsic is acceptable.
13.1.13	FIRST AID, TRAUMA KIT	Must be <b>compliant with ANSI Z-308.1</b>
13.2	General Purpose, Small Hand Tools	If hand tool is available as a Non-Sparking <u>from Section 13.3 (Hand Tools, Special Purpose)</u> , it <u>counts also here in Section 13.2 (NO NEED TO DUPLICATE)</u> . - 13.3.7 Acceptable - 13.3.8 Acceptable - 13.3.9 Acceptable - 13.3.10 Acceptable (Kit of 3 different sizes) - 13.3.11 Acceptable (Kit of 3 different sizes) - 13.3.12 Acceptable - 13.3.13 Acceptable - 13.3.14 Acceptable - 13.3.15 Acceptable (Kit of 3 different) - 13.3.16 Acceptable (Kit of 4 different) - 13.3.18 Acceptable (Kit of 2 different sizes) - 13.3.19 Acceptable - 13.3.20 Acceptable (Kit of 2 different sizes) - 13.3.21 Acceptable - 13.3.17 Acceptable - 13.3.22 Acceptable (Kit of 10 different ordinary sizes – English measurement) - 13.3.23 Acceptable (Kit of 5 different industrial sizes) - 13.3.24 Acceptable (Kit of 10 different ordinary sizes) - 13.3.25 Acceptable (Kit of 5 different industrial sizes) - 13.3.26 Acceptable - 13.3.27 Acceptable
13.2.2	HAMMER, Claw: 20 to 24 oz.	
13.2.3	HAMMER, Engineer: 36 to 40 oz	
13.2.4	HAMMER, Ball Peen: 16 to 40 oz.	
13.2.5	SCREWDRIVER, CHISEL, KIT	
13.2.6	SCREWDRIVER, PHILLIPS, KIT	
13.2.7	PLIERS, ORDINARY, Utility	
13.2.8	PLIERS, WIRE, Side Cutting	
13.2.9	PLIERS, LONG-NOSE, Needle	
13.2.10	PLIERS, COMBINATION, Kit of 3	
13.2.11	PLIERS, LOCKING, Vice Grip, Kit of 4	
13.2.14	WRENCH, CRESCENT, Adjustable, Kit of 2	
13.2.15	WRENCH, CRESCENT, Heavy Duty	
13.2.16	WRENCH, PIPE, Adjustable, Kit of 2	
13.2.17	WRENCH, PIPE, Heavy Duty	
13.2.18	WRENCH, UNIVERSAL, Bung Cap	
13.2.19	WRENCH, Combination, Box-Open, Kit of 10 sizes	
13.2.20	WRENCH, Combination, Box-Open, Kit of 5 sizes	
13.2.21	WRENCH, SOCKET Kit, Ordinary	
13.2.22	WRENCH, SOCKET Kit, Industrial	
13.2.29	KNIFE, PUTTY, Scrapping	
13.2.31	SHEARS, Cutting	
13.2.28	TAPE, MEASURING, 50 feet or longer,	Tape <b>MUST</b> be non-metallic and non-conductive (i.e. cloth, plastic)

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