

ACRONYMS AND GLOSSARY

**NOTE: MANY OF THESE ARE REGIONAL IN THEIR USE; MAY BE MULTIPLE MEANINGS OR OTHER SLANG WITH SIMILAR / SAME MEANINGS VARIED BY LOCALE.*

A

- **ACCOUNTABILITY-** SYSTEM OF TRACKING ALL PERSONNEL ON A SCENE AND ENSURE THAT NO FIREFIGHTER IS LEFT IN A DANGEROUS SITUATION AFTER EVACUATION. PERFORMED IMMEDIATELY FOLLOWING EXIT FROM A HAZARDOUS ENVIRONMENT AND RELATED TO THE **IC** AS A **PAR**. RELATED TERMS:**PASS, RIT, FREELANCING**.
- **ACT 833 (OF 1991)-** ALLOWS FOR A RETURN OF ½ OF 1% OF INSURANCE PREMIUMS PAID BY HOMEOWNERS TO THE FIRE DEPARTMENTS. ADMINISTERED BY THE ARK DEPT. OF EMERG. MGMNT (**ADEM**) AND PASSED THROUGH THE COUNTY LEVEL OFFICES. EXPENDITURES ARE LIMITED TO TRAINING, EQUIPMENT, AND OTHER SPECIFIED ITEMS.
- **ADEM-ARK.** DEPT. OF EMERG. MGMNT, LOCATED ON CONWAY. FORMERLY KNOWN AS OES (OFFICE OF EMERGENCY SERVICES). REPLACES THE COLD-WAR ERA CIVIL DEFENSE PROGRAM. COORDINATES EMERGENCY SERVICES THROUGHOUT THE STATE WITH A NETWORK OF COUNTY-LEVEL OFFICES. THEIR RESPONSE IS THE FIRST STEP IN THE DECLARATION OF FEDERAL DISASTERS.
- **AED-** (AUTOMATED EXTERNAL DEFIBRILLATOR)- DEVICE THAT PROVIDES AN ELECTRICAL SHOCK TO A PERSONS HEART THAT HAS STOPPED. EASILY APPLIED, THE AED IS NEARLY MISTAKE-PROOF AND GUIDES THE USER WITH PLAINLY SPOKEN VOICE PROMPTS.
- **AERIAL-** APPARATUS WHICH HAS AN ARTICULATING BOOM (SNORKEL), AN EXTENDABLE LADDER (STRAIGHT STICK) OR AN EXTENDING LADDER WITH A BUCKET AT THE END. HAS WATERWAY TO THE TIP, ABLE TO PLACE A LARGE FIRE STREAM FROM AN ELEVATED POINT. REFERRED TO AS "**TRUCKS**", THESE UNITS ARE RESPONSIBLE FOR RESCUE OF TRAPPED VICTIMS FROM UPPER STORIES AND FOR **FORCIBLE ENTRY** AND **VENTILATION** DURING INITIAL ATTACK. THE **AERIAL** DEVICE MAY BE MOUNTED AT THE REAR, MIDDLE, OR FRONT OF THE VEHICLE, AND LARGER UNITS MAY BE DRAWN BY A **TRACTOR**, NECESSITATING THE USE OF A **TILLERMAN** TO STEER THE REAR OF THE UNIT. MAY BE CALLED A **TOWER LADDER**.
- **AFC-**ARKANSAS FORESTRY COMMISSION
- **AFFF-** SEE FOAM CONCENTRATE
- **AIR PACK-** SEE SCBA
- **AJAX-** BRAND NAME OF PNEUMATIC (AIR OPERATED) TOOLS USED FOR **FORCIBLE ENTRY**.

- **ALERT**-PAGER SETTING WHERE THE RADIO REMAINS SILENT UNTIL A TONE IS RECEIVED, AND ACTIVATES THE UNIT.
- **ALPHA**- IONIZED RADIATION, LEAST DANGEROUS, CAN BE SHIELDED BY CLOTH OR PAPER.
- **APPLIANCE**- ITEM THAT IS USED TO HANDLE WATER FLOW.
- **ARFF**- AIRCRAFT RESCUE AND FIREFIGHTING, ALSO KNOWN AS **CFR**.
- **ATTACK TEAM**-CREW OF FIREFIGHTERS IDENTIFIED BY NUMBER ENGAGED IN AGGRESSIVE FIRE ATTACK.
- **AVPU**-**A**LERT, **V**ERBAL, **P**AINFUL OR **U**NRESPONSIVE; USED TO DOCUMENT A PATIENT'S LEVEL OF CONCIIOUSNESS.
- **AWARENESS**- MINIMUM TRAINING LEVEL TO RESPOND TO A **HAZMAT** SCENE. TRAINED TO IDENTIFY, ISOLATE, EVACUATE. LEVEL 1.

B

- **B-NICE**- **B**IOLOGICAL, **N**UCLEAR, **I**NCENDIARY. **C**HEMICAL, **E**XPLOSION.
- **BACKDRAFT**-EXPLOSIVE INCREASE OF FIRE IN A COMPARTMENT FIRE CAUSED BY THE SUDDEN INFLUX OF OXYGEN IN A SMOLDERING HIGH-TEMPERATURE ENVIRONMENT. THE SMOLDERING FIRE HAS DEPLETED THE OXYGEN CONTENT BELOW 16% AND IS DYING, BUT IS SUDDENLY REVIVED BY IMPROPER **VENTILATION**. THESE EXPLOSIONS CAN CAUSE DEATH AND STRUCTURAL FAILURE. ALSO KNOWN IN OLDER TERMS AS A *SMOKE EXPLOSION*
- **BALL VALVE**- APPLIANCE TO STOP WATER FLOW WITH A QUICK MOTION BY MOVING THE HANDLE 90 DGREES TO ROTATE THE BALL'S OPENING NSIDE THE VALVE. EXAMPLE OF SUCH IS THE VALVE ON A **NOZZLE**.
- **BAMBI BUCKET**-CONTAINER SUSPENDED BELOW A HELICOPTER TO CARRY WATER IN WILDLAND FIREFIGHTING.
- **BASE CAMP**- AREA WHERE RESPONDERS REPORT TO BEFORE AND AFTER THEIR ASSIGNED SHIFT ON LARGE INCIDENTS. WILL CONTAIN FACILITIES FOR MEDICAL, **COMMAND POST**, FOOD, **STAGING**, ETC.
- **BEAM**- THE SIDES OF A LADDER. HOLDS THE RUNGS BETWEEN VERTICAL UPRIGHTS.
- **BETA**- IONIZING RADIATION AS SEEN WITH FALLOUT. MORE DANGEROUS THAN ALPHA, LESS DANGEROUS THAN GAMMA.
- **BI**- BURN INDEX; SEVERITY RATING USED BY **AFC** TO EXPRESS FIRE DANGER
- **BLEVE**- (BOILING LIQUID EXPANDING VAPOR EXPLOSION). LARGE EXPLOSION CREATED WHEN DIRECT FLAME IMPINGMENT CAUSES A FLAMMABLE LIQUID IN A CONTAINER TO BOIL, CREATING VAPORS AND INCREASING PRESSURE UNTIL THE CONTAINER FAILS, RESULTING IN A SUDDEN RELEASE OF THE CONTENTS IN A HUGE FIREBALL AND

PROPELLING THE CONTAINER FRAGMENTS LONG DISTANCES. (KINGMAN, ARIZONA HAD A BLEVE ON A PROPANE RAILCAR WHICH KILLED NUMEROUS RESPONDERS) NOT TO BE OVERLOOKED ON BACKYARD GRILL TANKS AND VEHICLE GAS TANKS!

- **BOMBER**- AIRCRAFT USED IN WILDLAND FIRES, USUALLY ACCEPTED AS SMALL-FRAME, CARRYING APPROXIMATELY 500 GALLONS.
- **BURN BAN**- NOTICE THAT PROHIBITS ALL OUTDOOR BURNING.
- **BRUSH TRUCK**- SMALL APPARATUS USED FOR WILDLAND FIRES. HAS PUMP, HOSE, AND HAND TOOLS, EQUIPPED WITH 4-WHEEL DRIVE FOR OFF-ROAD USE. USUALLY BUILT ON A 1-TON TRUCK CHASSIS.
- **BSI**-BODY SUBSTANCE ISOLATION; PROTECTIVE CLOTHING FOR MEDICAL RESPONDERS AGAINST BLOODBORNE PATHOGENS.
- **BTU**- BRITISH THERMAL UNIT, AMOUNT OF HEAT NEEDED TO RAISE THE TEMPERATURE OF 1 POUND OF WATER 1 DEGREE.
- **BUNKER GEAR**-SEE PPE

C

- **CAFS**- (COMPRESSED AIR FOAM SYSTEM); INJECTS AIR INTO A HOSELINE CONTAINING FOAM / WATER. ALLOWS FOR A "WET" OR "DRY" FOAM IN CLASS A APPLICATIONS. SEE **STRUCTURE PROTECTION AND WUI**.
- **CAM LOCK**- HOSE COUPLING THAT HAS TWO HANDLES THAT ENGAGE NOTCHES WHEN CLOSED. HAS MALE / FEMALE COMPONENTS.
- **CARDOX**-CARBON DIOXIDE, EXTINGUISHED FLAMES THROUGH OXYGEN DISPLACEMENT. ALSO KNOWN AS CO₂
- **CBR**-MILITARY ACRONYM FOR CHEMICAL, BIOLOGICAL, RADIOLOGICAL
- **CELLAR NOZZLE**- see distributing nozzle.
- **CELSIUS / CENTRIGRADE**- TEMPERATURE SCALE WHERE WATER FREEZES AT 0 DEGREES AND BOILS AT 100 DEGREES. BASED ON THE METRIC SYSTEM.
- **CENTRIFUGAL**- TYPE OF PUMP UTILIZING THE SPINNING VANES OF THE PUMP IMPELLER TO PRODUCE ROTATING MOTION OF THE WATER, "SLINGING" IT INTO THE DISCHARGE PORT.
- **CERCLA**- COMPREHENSIVE ENVIRONMENTAL, COMPENSATION AND LIABILITY ACT. (ESTABLISHED **SUPERFUND** {12/11/80}) CERCLA WAS AMENDED BY **SARA**
- **CFR**-CRASH, FIRE AND RESCUE; AIRCRAFT FIRE PROTECTION, *SEE ARFF*
 - **ALSO "CODE OF FEDERAL REGULATIONS"**
- **CHEMTREC**-*CHEMICAL TRANSPORTATION EMERGENCY CENTER*. 24/7 COORDINATION FACILITY TO AID THE **IC** IN TRACKING A **HAZMAT** TO ITS SHIPPER / ORIGIN, HANDLE TRANSPORTATION EMERGENCIES THROUGH CONTACT WITH OTHER RESOURCES.

- **CLAPPER VALVE**-A INNER DIVIDER IN AN **APPLIANCE** OR **SPRINKLER** SYSTEM THAT IS HINGED ON ONE SIDE, ALLOWING WATER TO FLOW ONLY IN ONE DIRECTION.
- **CLASS A**- ORDINARY COMBUSTIBLES SUCH AS WOOD, PAPER, CLOTH
- **CLASS B**- FLAMMABLE LIQUIDS AND GASES
- **CLASS C**- ENERGIZED ELECTRICAL EQUIPMENT. WILL CHANGE CLASSES WHEN THE CURRENT IS SHUT OFF.
- **CLASS D**- FLAMMABLE METALS SUCH AS MAGNESIUM, SODIUM, TITANIUM. (MANY "-IUM" METALS ARE IN THIS CLASS) EXTINGUISHED ONLY WITH SPECIAL AGENTS.
- **CLASS K**- LARGE KITCHEN FIRES SUCH AS FOUND IN DEEP FRYERS.
- **CLAW TOOL**- PRYING TOOL USED OR FORCIBLE ENTRY. RESEMBLES A LARGE "J" WITH A HOOK ON ONE END AND CLAWS LIKE A HAMMER'S ON THE OTHER.
- **CODE OF FEDERAL REGULATIONS- (CFR)** ABBREVIATED AS THE TITLE NUMBER, FOLLOWED BY THE PART AND CHAPTER NUMBERS. FOR EXAMPLE, TITLE 29 OF THE CODE OF FEDERAL REGULATIONS, PART 1910, CHAPTER 120 IS EXPRESSED AS 29 CFR 1910.120. TITLES ARE SEPERATED BY MAJOR GROUPINGS, TITLE 29 COVERS LABOR, TITLE 42 COVERS SOLID AND HAZARDOUS WASTE.
- **COLD ZONE**- OUTERMOST AREA WHERE NO PPE IS REQUIRED AT A HAZMAT SCENE.
- **COMBINATION LAY**- HOSE LAY WHERE ONE ENGINE PERFORMS A **FORWARD LAY** AND ANOTHER PERFORMS A **REVERSE LAY** TO COMPLETE THE SUPPLY LINE.
- **COMBUSTION**- THE SUSTAINED PRODUCTION OF HEAT AND LIGHT FROM A FUEL'S VAPORS THAT HAVE BEEN HEATED ABOVE THEIR **IGNITION POINT**; A CHEMICAL REACTION THAT IS FASTER THAN OXIDATION (RUST) AND SLOWER THAN AN EXPLOSION.
- **COMMAND POST**- PLACE WHERE **IC** AND REMAINDER OF COMMAND TEAM IS GATHERED TO COORDINATE MITIGATION OF AN EMERGENCY. ABBREVIATED AS **CP**. RELATED TERMS: **ICS, NIMS, IC**.
- **CONFINED SPACE**- ANY AREA NOT DESIGNED FOR HUMAN OCCUPATION THAT HAS A RESTRICTED ENTRANCE / EXIT. ENTRY CAN BE MADE BY PERMIT ONLY AND UTILIZES PERSONNEL IN SUPPLIED AIR ONLY. MANY RESCUERS ARE KILLED ATTEMPTING TO PERFORM IN CONFINED SPACES DUE TO OXYGEN-DEFICIENT ATMOSPHERES.
- **COUNCIL**- ONE-SIDED RIGID RAKE WITH AGGRESSIVE TEETH USED FOR WILDLAND OPERATIONS TO CLEAR A FIRE LINE. ALSO KNOWN AS A FIRE RAKE.
- **CP-COMMAND POST**

D

- **D-MAT-** DISASTER MEDICAL ASSISTANCE TEAM.
- **D-MORT-** DISASTER MORTUARY RESPONSE TEAM.
- **DECK GUN / DELUGE GUN- MASTER STREAM** DEVICE THAT IS PORTABLE OR MOUNTED TO DIRECT LARGE CALIBER STREAMS FOR FIRE ATTACK. WILL USUALLY HAVE FROM 1 TO 3 INTAKES FOR HOSELINES.
- **DIRECT CHANNEL-** *SEE TALK AROUND.*
- **DIRTY BOMB-** CONVENTIONAL EXPLOSIVE DEVICE THAT IS USED TO DISPERSE NUCLEAR CONTAMINATES.
- **DISTRIBUTING NOZZLE / CELLAR NOZZLE-** SOFTBALL SIZED APPLIANCE ATTACHED TO THE END OF A HOSE WHICH HAS NUMEROUS ORIFICES TO ALLOW WATER TO SPRAY AS IT ROTATES.
- **DOGS-** LOCKING MECHANISM ON AN EXTENSION LADDER, *ALSO KNOWN AS PAWLS*
- **DOUBLE FEMALE-** HOSE APPLIANCE TO COUPLE TWO MALE COUPLINGS TOGETHER. HAS THREADS ON THE INSIDE OF THE COUPLING
- **DOUBLE MALE-** HOSE APPLIANCE TO COUPLE TWO FEMALE COUPLINGS TOGETHER. HAS THREADS ON THE OUTSIDE OF THE COUPLING
- **DRAFT-** TO USE A STATIC SOURCE AS WATER SUPPLY BY CREATING A VACUUM INSIDE THE PUMP AND THEN PUMPING THE WATER AS IT ENTERS. THE PUMP DOES NOT ACTUALLY "SUCK" THE WATER, BUT ATMOSPHERIC PRESSURE PUSHING DOWN ON THE WATER FORCES IT INTO THE VACUUM OF THE PUMP UNTIL PRIMED. MAXIMUM LIFT WHILE DRAFTING IS 22 FEET AT SEA LEVEL (14.7PSI). *SEE ALSO PRIMER.*
- **DRY SYSTEM-** A TYPE OF **SPRINKLER** SYSTEM THAT HAS AIR STORED IN THE BUILDING BRANCHES UNDER PRESSURE, HOLDING A **CLAPPER VALVE** CLOSED UNTIL THE AIR PRESSURE IS RELEASED BY THE ACTIVATION OF A **HEAD**. THESE ARE COMMON IN LOADING DOCKS AND OTHER AREAS SUBJECT TO FREEZING TEMPERATURES.

E

- **EDUCTOR (FOAM)-** APPLIANCE USED TO INTRODUCE **FOAM CONCENTRATE** INTO A HOSELINE BY A SIPHONING PRINCIPLE. CONTAINS A METERING DEVICE.
- **ENGINE-**see pumper.
- **ERG-** (EMERGENCY RESPONSE GUIDEBOOK); GENERALLY ACCEPTED AS THE INITIAL REFERENCE MATERIAL ON A **HAZMAT** SCENE. INFORMATION IS IN 4 SECTIONS, (ID #, CHEMICAL NAME, RESPONSE

GUIDES, EVACUATION DISTANCES) USED IN THE FIRST FEW MINUTES OF A HAZMAT CALL UNTIL OTHER REFERENCES ARE AVAILABLE SUCH AS SHIPPING PAPERS, **MSDS**, ETC. ALLOWS FOR RAPID IDENTIFICATION OF HAZMATS BY ID NUMBER OR PLACARD DESIGNATION.

- **EXPOSURE**- STRUCTURE OR OBJECT IN DANGER OF FLAME OR HEAT FROM A NEARBY FIRE.
- **EXTENSION**- TRAVEL OF FIRE PAST THE POINT OF ORIGIN, USUALLY REFERRED TO IN REFERENCE TO WALLS, ATTICS, OR **EXPOSURES**.

F

- **FAP**- FIRE ALARM PANEL; INDICATED ON A PREFIRE PLAN (**PFP**); SHOWS THE ZONE WHERE A DETECTOR ACTIVATED AND HAS CONTROLS TO RESET AND SILENCE THE SYSTEM.
- **FARENHEIT**- TEMPERATURE SCALE WHERE WATER FREEZES AT 32 DEGREES AND BOILS AT 212.
- **FDC**- FIRE DEPARTMENT CONNECTION; FOR BOOSTING THE PRESSURE ON INSTALLED FIRE PROTECTION SYSTEMS ON COMMERCIAL BUILDINGS. UTILIZES TWO OR MORE FEMALE COUPLINGS TO RECEIVE HOSELINES FROM APPARATUS.
- **FIRE PLUG**- **SEE HYDRANT**; NAMED FOR THE PLUG PLACED IN WOODEN WATER MAINS AND REMOVED IN CASE OF FIRE, SOMETIMES THE WOODEN MAINS HAD HOLES DRILLED IN THEM AND THE PLUGS THEN PLACED AFTER THE FIRE. ALSO SEE **STEAMER PORT**.
- **FIRE STREAM**- WATER FLOWING IN A SHAPED FASHION TO BE DIRECTED FOR FIREFIGHTING.
- **FIRE TETRAHEDRON**- THE COMBINATION OF PROPER HEAT, FUEL, OXYGEN AND COMBINED WITH A CHEMICAL CHAIN REACTION TO PRODUCE **COMBUSTION**.
- **FIRE TRIANGLE**- **SEE FIRE TETRAHEDRON**; OLDER FORMAT OF HEAT, FUEL AND OXYGEN TO PRODUCE **COMBUSTION**; NOW REPLACED WITH THE **F. TETRAHEDRON**.
- **FLAMEOVER**- EXTENSION OF FLAMES INTO FARTHER REACHES OF A COMPARTMENT FIRE.
- **FLASH POINT**- LOWEST TEMPERATURE WHERE THE VAPORS FROM A FUEL WILL IGNITE AND "FLASH", BUT NOT SUPPORT CONTINUED **COMBUSTION**.
- **FLASHOVER**-SUDDEN ERUPTION OF FLAMES IN A COMPARTMENT FIRE, OFTEN HAVING TEMPERATURES IN EXCESS OF 1000 DEGREES **FARENHEIT**. ALL ROOM CONTENTS HAVE HEATED PAST THEIR **IGNITION POINT** AND SUDDENLY BURST INTO FLAMES.
- **FOAM CONCENTRATE**- LIQUID DILUTED FOR MAKING FINISHED FOAM. AVAILABLE IN VARYING PERCENTAGES FOR DIFFERENT USES.

AVAILABLE IN CLASS A AND B DEPENDING ON INTENDED USE. ACTS AS A SURFACTANT TO REDUCE WATER'S SURFACE TENSION TO ALLOW DEEPER PENETRATION ON CLASS A AND FORMS A FILM TO CONTAIN FLAMMABLE VAPORS IN CLASS B SOLUTIONS. CLASS B IS ALSO KNOWN AS AQUEOUS FILM FORMING FOAM (**AFFF**). VARIOUS SOLUTIONS ARE AVAILABLE FOR ALCOHOL CONTENT, POLAR SOLVENTS, ETC. USUALLY SYNTHETIC; CAN BE MADE FROM NATURAL PRODUCTS SUCH AS THE OLDER PROTEIN FOAMS.

- **FORCIBLE ENTRY**- ENTRY MADE INTO A STRUCTURE BY USE OF TOOLS AND OFTEN BY BREAKING LOCKS, WINDOWS, OR PRYING OPEN DOORS.
- **FORWARD LAY**- SEE STRAIGHT LAY
- **FREELANCING**-UNSAFE AND FORBIDDEN PRACTICE OF DOING "WHATEVER YOU WANT TO" AT A SCENE. RESULTS FROM PERSONNEL NOT CHECKING IN WITH THE **IC**, AND NOT BEING TRACKED IN THE **ACCOUNTABILITY** SYSTEM. ALL RESPONDERS ARE TO CHECK IN AND RECEIVE THEIR OPERATING INSTRUCTIONS UPON THEIR ARRIVAL.
- **FRICTION LOSS**- FRICTION OF WATER INSIDE A HOSE OR APPLIANCE CAUSED BY THE WATER MOLECULES RUBBING THE INNER SURFACE, REDUCING THE OUTPUT PRESSURE. THE SMALLER THE DIAMETER, THE GREATER THE FRICTION LOSS.

G

- **GAMMA**-RADIATION WAVES, REQUIRES SEVERAL FEET OF CONCRETE OR OTHER SHIELDING TO PROVIDE PROTECTION. SIMILAR TO MEDICAL X-RAYS.
- **GATE VALVE**- APPLIANCE TO STOP WATER FLOW BY TURNING A HANDLE TO RAISE / LOWER A GATE INSIDE THE VALVE. PREFERRED WHEN WATER IS AT HIGH FLOW OR PRESSURE TO PREVENT **WATER HAMMER**. EXAMPLES ARE FOUND ON **HYDRANTS**
- **GPM**- GALLONS PER MINUTE

H

- **HALLIGAN**-FORCIBLE ENTRY TOOL CARRIED BY FIREFIGHTERS, FEATURES A SPIKE, PRYING SURFACE, AND CLAW. MAY BE HAMMERED INTO PLACE WITH A FLAT HEAD AXE. CARRIED TOGETHER, THESE TWO TOOLS ARE KNOWN AS "THE IRONS" AND ARE HELD TOGETHER WITH A "MARRYING STRAP" AND EASILY PLACED INTO USE. NAMED AFTER A FDNY OFFICER WHO DEVELOPED IT.
- **HALON**-A FAMILY OF EXTINGUISHING AGENTS CONTAINING HALOGENATED GAS, USED IN COMPUTER ROOMS AND OTHER CLEAN

APPLICATIONS, SUCH AS THE AIRCRAFT INDUSTRY. KNOWN TO CAUSE DAMAGE TO THE OZONE LAYER, PHASED OUT AND REPLACED WITH NON-DAMAGING AGENTS.

- **HALYARD-** ROPE USED TO EXTEND A LADDER.
 - **HARD SUCTION-** HOSE USED TO **DRAFT** WITH, NON-COLLAPSIBLE AND MAY BE RIGID OR SEMI-FLEXIBLE.
 - **HAZMAT-** HAZARDOUS MATERIALS; ANY SUBSTANCE THAT CAUSES DAMAGE WHEN RELEASED OR USED IMPROPERLY.
 - **HAZWOPER-** HAZARDOUS WASTE EMERGENCY OPERATIONS LAW; ESTABLISHES LOCAL EMERGENCY PLANNING COMMITTEES (LEPC), APPLICABLE STANDARDS TO FIRE DEPARTMENT **HAZMAT** RESPONSE DERIVED FROM OSHA'S [29 CFR 1910.120](#). THIS DEFINES THE MINIMUM STANDARDS FOR **HAZMAT** RESPONSE, TRAINING AND **PPE**.
 - **HEAD-** ACTIVATED BY HEAT, THESE ARE THE ORIFICES THAT DISCHARGE WATER ONTO A FIRE AND ARE KNOWN AS UPRIGHT, PENDANT, OR SIDEWALL DEPENDING ON THEIR MOUNTING. THEY ARE AVAILABLE IN A RANGE OF OPERATING TEMPERATURES, AND MAY BE ACTIVATED BY THE RELEASE OF A FUSIBLE LINK OR RUPTURE OF A GLASS AMPULE. REPLACEMENT HEADS ARE STORED AT THE **SPRINKLER** MAIN, WHERE THE CONTROLS FOR THE SYSTEM ARE LOCATED.
 - **HIGBY INDICATOR-**NOTCH ON THE EAR OF A HOSE COUPLING INDICATING THE START OF THE THREADS.
 - **HOSE JACKET-** TOOL USED TO CONTAIN WATER FROM A DAMAGED HOSE TEMPORARILY. MAY BE LEATHER, RUBBER-LINED METAL, ETC.
 - **HOT ZONE-** PERIMETER ESTABLISHED WHERE ALL WORKERS ARE CONSIDERED CONTAMINATED. THE INNERMOST AREA OF A **HAZMAT** SCENE.
 - **HYDRANT-** DEVICE PLACED AT PRESCRIBED INTERVALS ATTACHED TO WATER MAINS TO ALLOW THE FIRE DEPT. TO UTILIZE THE PRESSURIZED WATER SUPPLY. NORMALLY ON MAINS OF 6 INCHES OR LARGER, THEY GENERALLY HAVE 2 PORTS FOR FIRE DEPT. ATTACHMENT, AND HIGHER VOLUME HYDRANTS ALSO WILL HAVE A **STEAMER PORT**, OF 4 ½" OR LARGER.
 - **HYDRANT WRENCH-** TOOL USED TO TURN VALVE OF A FIRE HYDRANT, OPEN THE PORTS, MANY ARE EQUIPPED WITH EARS FOR TURNING HOSE COUPLINGS.
- |
- **IAP-** (INCIDENT ACTION PLAN) TOOL USED TO RECORD AND PLAN THE COORDINATED RESPONSE TO AN EMERGENCY. WHEN COMPLETED IT WILL BECOME PART OF THE LEGAL RECORD OF THE INCIDENT.

APPROVED BY THE **IC** AND USED TO BRIEF ALL RESPONDERS .THE **TACTICAL WORKSHEET** IS USED IN CONJUNCTION WITH THE IAP.

- **IC-** (INCIDENT COMMANDER) THE FIRST PERSON ARRIVING ON SCENE; DUTIES ARE TO EVALUATE THE HAZARDS, WATER SUPPLY, LIFE THREAT, AND INITIATE TACTICS AND STRATEGY TO MITIGATE THE INCIDENT. LEGALLY RESPONSIBLE FOR ACTIONS / OMISSIONS OCCURRING DURING THE INCIDENT, RESPONSIBLE FOR THE SAFETY OF ALL CIVILIANS AND FIREFIGHTERS WITHIN THE SCENE PERIMETER. MAY BE LATER RELIEVED BY A RANKING OFFICER OF THE DEPARTMENT, MAY BE A PERSON FROM ANOTHER AGENCY (SEE UNIFIED COMMAND)
- **ICP-** INCIDENT COMMAND POST, ALSO KNOWN AS **CP**.
- **ICS-** (INCIDENT COMMAND SYSTEM). PRESCRIBED METHOD OF HANDLING EMERGENCY INCIDENTS. BREAKS THE MANAGEMENT OF PERSONNEL INTO SMALLER SPAN OF CONTROL FOR EFFECTIVENESS. ORIGINATED IN CALIFORNIA WILDFIRE OPERATIONS, IT IS SIMILAR TO MILITARY OPERATIONS, WITH SECTOR COMMANDERS EACH CONTROLLING THE PERSONNEL UNDER THEM. ALSO KNOWN AS INCIDENT MANAGEMENT SYSTEM (**IMS**), PORTION OF *NATIONAL INCIDENT MANAGEMENT SYSTEM, (NIMS)*.
- **IDLH-** IMMEDIATELY DANGEROUS TO LIFE AND HEALTH, THE GIVEN CONCENTRATION OF A **HAZMAT** THAT WILL PRODUCE 100% MORTALITY.
- **IGNITION POINT-** TEMPERATURE WHERE VAPORS FROM A FUEL ARE HEATED SUFFICIENTLY TO SUPPORT CONTINUED **COMBUSTION**.
- **INDIAN PACK-** BACKPACK WATER TANK WITH A HAND OPERATED PUMP. "INDIAN" IS A BRAND NAME. CAPACITY IS APPROX 5 GALS.
- **INTRODUCTION TO FIRE PROTECTION-** THE BASIC-LEVEL COURSE THAT IS MANDATORY FOR ALL FIREFIGHTERS TO COMPLETE. COVERS SUCH AREAS AS FIRE SCIENCE, TOOLS & EQUIPMENT, AND TERMINOLOGY.
- **ISO-** (INSURANCE SERVICES ORGANIZATION); EVALUATES FIRE DEPTS. AND RATES ON A 1-10 SCALE DEPENDING ON THE CATEGORIES OF COMMUNICATIONS, WATER SUPPLY, AND FIRE DEPT. EQUIPMENT AND TRAINING. 1 IS "EXCELLENT" AND 10 IS "NO ORGANIZED FIRE PROTECTION, RESULTING IN HIGHER INSURANCE PREMIUMS.

J

- **JUMP LINE-** QUICKLY DEPLOYED ATTACK LINE, USUALLY ON THE FRONT OF AN ENGINE.

K

- **K-TOOL-** FORCIBLE ENTRY TOOL SIMILAR TO A **HALLIGAN** BUT LACKS THE RIGHT ANGLE SPIKE.
- **KBDI-** KEETCH-BYRAM DROUGHT INDEX; A SCALE FROM 0-800 USED IN ASSISTING DANGER OF WILDLAND FIRES.
- **KELVIN-** TEMPERATURE SCALE WHERE 0 DEGREES IS ABSOLUTE COLD (ATOMS NO LONGER MOVE).
- **KERNMANTLE-**TYPE OF SYNTHETIC ROPE WHICH HAS A SOLID CORE (KERN) COVERED BY A BRAIDED SHEATH (MANTLE). THESE ROPES MAY BE CLASSIFIED AS STATIC (LOW-STRETCH) OR DYNAMIC (MODERATE-STRETCH). ONLY STATIC KERNMANTLE IS USED IN LIFE-SAFETY APPLICATIONS, DNAMIC IS USED FOR SPORT CLIMBING WHERE A FALL WOULD BE ENCOUNTERED.

L

- **LC50-** LETHAL CONCENTRATION, 50% DEATH RATE FROM THE VAPOR EXPOSURE.
- **LD50-** LETHAL DOSE, 50% DEATH RATE. 50% OF A TEST POPULATION IS KILLED BY THIS DOSE OF TOXIN.
- **LEL-** LOWER EXPLOSIVE LIMIT; LOWEST CONCENTRATION THAT WILL EXPLODE.
- **LEVEL A-** FULLY ENCAPSULATED **HAZMAT** SUIT.
- **LEVEL B-** SPLASH PROTECTION WITH SCBA.
- **LEVEL C-** PROVIDES PROTECTION FROM DRY CONTAMINATES.
- **LEVEL D-** STANDARD WORK CLOTHING.
- **LDH-** (LARGE DIAMETER HOSE) USUALLY 4,5,OR 6 INCH TO MAINTAIN A WATER SUPPLY. **FRICTION LOSS** IN **LDH** IS NEGLIGIBLE AND IN ESSENCE YOU ARE LAYING ANOTHER WATER MAIN TO THE SCENE. USUALLY RUBBER COVERED HOSE.
- **LFL-**LOWER FLAMMABLE LIMIT
- **LNG-** (LIQUIFIED NATURAL GAS)- EXTREMELY FLAMMABLE AND LIGHTER THAN AIR.
- **LOC-** LEVEL OF CONCIOUSNESS OR LOSS OF CONCIOUSNESS.
- **LOX-** LIQUIFIED OXYGEN
- **LPG-** (LIQUIFIED PETROLEUM GAS) <PROPANE> EXTREMELY FLAMMABLE AND HEAVIER THAN AIR.
- **LPM-**LITERS PER MINUTE

M

- **MASTER STREAM-**FIRE STREAM TOO LARGE FOR FIREFIGHTER TO HANDLE AND CAN PRODUCE IN EXCESS OF 1000 GPM. SEE **DECK GUN**.

- **MAYDAY**- EMERGENCY RADIO TRAFFIC INDICATING PERSONNEL ARE IN LIFE-THREATING DANGER AND NEED IMMEDIATE ASSISTANCE. ALL OTHER RADIO TRAFFIC STOPS EXCEPT THE **IC**.
- **McLEOD TOOL** (mick-LOWD)- WILDLAND TOOL WITH A STRAIGHT EDGE ON ONE SIDE AND LONG AGGRESSIVE TEETH ON THE OTHER
- **METRIC SYSTEM**- MEASUREMENT SYSTEM BASED ON UNITS OF 10 WITH THE PRIMARY UNITS OF LITER (VOLUME) METER (LENGTH) AND GRAM (MASS) ARE EXPRESSED WITH VARYING PREFIXES TO DENOTE THE EXPONENTS.
- **MSDS**- (MATERIAL SAFETY DATA SHEET); LISTS THE PHYSICAL PROPERTIES OF A SUBSTANCE, EMERGENCY CONTACT INFORMATION, IDENTIFICATION INFORMATION, ETC. AVAILABLE FROM ALL MANUFACTURERS ON ALL SUBSTANCES THEY PRODUCE.
- **MVA**- MOTOR VEHICLE ACCIDENT
- **MVC**- MOTOR VEHICLE COLLISION

N

- **NBC**-NUCLEAR, BIOLOGICAL, CHEMICAL
- **NC**-NASAL CANNULA; PROVIDES SUPPLEMENTAL OXYGEN TO PATIENTS, FROM 21%-36% AT FLOWS UP TO 6 LITERS / MINUTE. HAS 2 SMALL PRONGS AT THE ENTRANCE OF THE NOSE AND LOOPS OVER THE EARS.
- **NFPA**- (NATIONAL FIRE PROTECTION ASSOCIATION)- SETS MINIMUM STANDARDS FOR THE FIRE SERVICE IN THE AREAS OF SAFETY, TRAINING, EQUIPMENT, APPARATUS, ETC.
- **NIFC**- NATIONAL INTERAGENCY FIRE CENTER.
- **NIMS**- NATIONAL INCIDENT MANAGEMENT SYSTEM; PRESCRIBED METHOD OF MANAGING EMERGENCIES BY US GOVERNMENT. UTILIZES THE **ICS** IN A UNIFIED OR SINGULAR FORMAT. SEE ALSO **COMMAND POST, ICS, IC, UC**.
- **NIOSH**- NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY & HEALTH
- **NOMEX**- TRADE NAME FOR FIRE RETARDANT CLOTH MANUFACTURED BY DUPONT CORP. WILL BURN, BUT EXTINGUISHES ITSELF AFTER FLAME CONTACT IS REMOVED.
- **NOZZLE**- DEVICE ATTACHED TO A WATER SUPPLY TO FORM A SHAPED **FIRE STREAM**
- **NPS**-NATIONAL PARK SERVICE, A BRANCH OF THE DEPT. OF AGRICULTURE DEALING WITH NATIONAL PARKS.
- **NRFM**- NON-REBREATHING FACE MASK. USED TO PROVIDE HIGH CONCENTRATION OXYGEN TO PATIENTS, SUPPLYING >90% AT 12-15 LITERS / MINUTE.(ALSO KNOWN AS NRB)
- **NURSE OPERATION**- SUPPLYING WATER FROM ONE TRUCK DIRECTLY TO ANOTHER ONE.
- **NWCG**- NATIONAL WILDFIRE COORDINATING GROUP

O

- **OPERATIONS-** TRAINING LEVEL ALLOWING PERSONNEL TO ACTIVELY MITIGATE A **HAZMAT** EMERGENCY IN A DEFENSIVE FASHION. LEVEL 2.
- **ORM-** OTHER REGULATED MATERIALS, e.g. AEROSOL CANS OF HAIRSPRAY. CLASSED BY LETTER SYSTEM (ORM-D)
- **OSHA-** OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
- **OS&Y-** OUTSIDE STEM AND YOKE; THE "STEERING WHEEL" ON A BUILDING THAT OPERATES THE INSTALLED FIRE PROTECTION SYSTEM. NORMALLY IN THE "OPEN" POSITION.
- **OVERHAUL-**POST-ATTACK PHASE TO ENSURE THE FIRE IS EXTINGUISHED, AND TO CHECK FOR POSSIBLE **EXTENSION**.
- **OXIDIZER-** SUBSTANCE THAT PRODUCES OR CONTAINS OXYGEN, GREATLY INCREASING FIRE INTENSITY.

P

- **PAR-**PERSONAL ACCOUNTABILITY REPORT. MESSAGE TO THE **COMMAND POST** THAT ALL PERSONNEL HAVE EXITED THE HAZARDOUS ENVIRONMENT AND ARE SAFE. ALSO PERFORMED AS A ROUTINE FUNCTION WHEN PERSONNEL HAVE BEEN ON AN **ATTACK TEAM** FOR 10 MINUTES, SIGNIFYING THEIR IMPENDING NEED FOR AIR REPLACEMENT AND **REHAB**. THE **RIT** TEAM WILL MAKE ENTRY ANYTIME A **PAR** IS NOT REACHED.
- **PASS-** (PERSONAL ALERT SAFETY SYSTEM) ELECTRONIC DEVICE WHICH DETECTS MOVEMENT, EMITS A LOUD ALARM WHEN THE WEARER IS IMMOVABLE FOR A PERIOD OF TIME, USUALLY 30 SECONDS. THESE MAY BE ACTIVATED MANUALLY IN EMERGENCY SITUATIONS. REQUIRED IN LIFE-SAFETY CONDITIONS.
- **PAWLS-***SEE DOGS*
- **PEL-** PERMISSIBLE EXPOSURE LIMIT.
- **PFP-**PRE FIRE PLAN. PROVIDES A FLOOR PLAN AND EMERGENCY INFORMATION PERTINENT TO A STRUCTURE. REQUIRED ON ALL COMMERCIAL STRUCTURES, MUST BE UPDATED EVERY 6 MONTHS.
- **PIERCING NOZZLE-** APPLIANCE WHICH HAS A POINT TO BE DRIVEN THROUGH A WALL OR CEILING AND SPRAYS WATER INTO AN ENCLOSED SPACE FOR EXTINGUISHMENT.
- **PIKE POLE-**TOOL WITH A HOOK AND POINT MOUNTED ON A LONG HANDLE. GENERALLY IN 3,6,8,10, AND 12-FOOT LENGTHS. USED FOR PUSHING AND PULLING. SIMILAR TOOLS ARE EQUIPPED WITH SLIGHTLY DIFFERENT HEADS FOR SPECIALIZED JOBS, SUCH AS PULLING PLASTER, TRASH, ETC.

- **PIO-** (PUBLIC INFORMATION OFFICER); PROVIDES INFORMATION TO MEDIA PERSONNEL CONCERNING THE DEPARTMENT'S OPERATIONS.
- **PITOT GAUGE-** (PEE-tow) USED TO MEASURE WATER FLOW WHEN TESTING FROM AN ORIFICE OF A KNOWN SIZE. PLACED IN THE CENTER OF A STREAM 1 INCH FROM THE OPENING, THE GPM READING IS CALCULATED FROM A CHART.
- **PIV-**POST INDICATOR VALVE; SHOWS THE STATUS OF AN INSTALLED SYSTEM BY VIEWING THE "OPEN" OR "CLOSED" SIGN THROUGH A SMALL WINDOW. SIMILAR IN SIZE TO A FIRE HYDRANT, CONTAINS THE VALVE TO SHUT OFF A BUILDING'S SYSTEM. NORMALLY IN THE "OPEN" POSITION.
- **PLOW-** FORESTRY BULLDOZER USED TO BUILD FIRELINES.
- **POLICY-** A PRACTICE OF BUSINESS THAT HOLDS NO DEVIATION. A POLICY WILL BE FOLLOWED AT ALL TIMES REGARDLESS OF THE SITUATION.
- **PORTABLE TANK-** (PORTATANK, DUMP TANK, COLLAPSA TANK, ETC- CONTAINER WHICH FOLDS AND IS CARRIED ON THE APPARATUS TO LEAVE THE UNIT'S WATER AT THE SCENE WHILE THEY LEAVE TO GET MORE.
- **PMS-** PULSE, MOTOR AND SENSATION; NEUROLOGICAL CHECK DURING SECONDARY SURVEY TO ESTABLISH A PATIENTS LEVEL OF FUNCTION.
- **PPE-** (PERSONAL PROTECTIVE EQUIPMENT) THE FIREFIGHTER'S CLOTHING WHICH PROTECTS THEM, CONSISTING OF COAT AND PANTS WHICH HAVE A THERMAL-AND VAPOR BARRIER, HELMET WHICH INCLUDES EYE PROTECTION AND EAR / NECK COVERS, BOOTS WITH STEEL TOES AND SHANK GLOVES WHICH ARE HEAT RESISTANT AND WATERPROOF, INCLUDE A BLOODBORNE PATHOGEN LINER TO PREVENT INFECTION BY CONTACT, SCBA TO PROVIDE RESPIRATORY PROTECTION. MADE FROM A BLEND OF MATERIALS TO PROVIDE HEAT AND FLAME PROTECTION AS WELL AS ABRASION RESISTANCE. **PPE** FOR FLAMMABLE LIQUIDS HAVE AN ALUMINIZED OUTER COVERING ON THE SHELL TO REFLECT UP TO 90% OF THE RADIANT HEAT. **PPE** IS ALSO USED IN **HAZMAT** SITUATIONS-SEE **LEVEL-A,B,C,D**
- **PPV-** (POSITIVE PRESSURE VENTILATION); REPLACES THE OLD METHOD OF NEGATIVE PRESSURE VENTILATION; COORDINATED EFFORT BETWEEN ATTACK CREWS AND VENT TEAM ALLOW FOR RAPID REMOVAL OF HEATED SMOKE AND TOXIC GASES FROM THE INTERIOR OF A STRUCTURE. THIS AIDS THE ATTACK CREWS TO FIND THE SEAT OF THE FIRE AND EXTINGUISH IT MORE SAFELY. LARGE FANS ARE USED TO FORCE CLEAN, COOL AIR INTO THE STRUCTURE AND RELEASE IT THROUGH A DISTANT OPENING DESIGNATED BY THE CREWS. SEE ALSO **VENTILATION** AND **BACKDRAFT**.
- **PRECONNECT-** ATTACK LINES THAT ARE PREDETERMINED LENGTH AND PLACEMENT ON ENGINES FOR RAPID DEPLOYMENT TO A SCENE.

- **PRIMER**- ELECTRICALLY OPERATED PUMP TO EXPEL AIR FROM THE INTAKE SIDE OF AN APPARATUS PUMP SO A DRAFT WILL OCCUR.
- **PROCEDURE**- A PRACTICE THAT IS CONSIDERED TO BE ROUTINE UNLESS CHANGED BY EXTENUATING CIRCUMSTANCES.
- **PSI**- POUNDS PER SQUARE INCH.
- **PULASKI**- HAND TOOL WITH TWO BLADES, ONE SIMILAR TO AN AXE, THE OTHER TURNED AT A RIGHT ANGLE FOR DIGGING. USED TO CLEAR FIRELINES.
- **PUMPER**- APPARATUS WHICH CARRIES HOSE, LADDERS, WATER, A PUMP, AND TOOLS TO FIGHT FIRES. KNOWN AS TRIPLE-, QUADRUPLE-, OR QUINTUPLET COMBINATION UNITS. A QUINT HAS AN **AERIAL DEVICE**; A QUAD HAS THE EQUIPMENT LISTED ABOVE. (THE MOST COMMON TYPE.) TANK CAPACITIES RANGE FROM 250 GALLONS UPWARD, USUALLY TO A MAXIMUM OF 1000 GALLONS.

R

- **RCRA**-RESOURCE CONSERVATION AND RECOVERY ACT. TITLE 42 OF THE CODE OF FEDERAL REGULATIONS (42 **CFR**) DEALS WITH HAZARDOUS WASTE MANAGEMENT.
- **REHAB**- SERVICE UNIT WHICH CARRIES DRINKS, FOOD, ETC TO TAKE CARE OF FIREFIGHTERS ON A SCENE.
- **RELAY**- PLACING A PUMPER IN LINE WITH THE WATER SUPPLY TO BOOST THE PRESSURE ON LONG LAYS OR IN LARGE FLOWS.
- **REPEATER**-RADIO COMPONENT IN A SYSTEM THAT RECEIVES TRAFFIC ON ONE FREQUENCY AND TRANSMITS IT ON ANOTHER AT A HIGHER POWER.
- **REVERSE LAY**- STRETCHING SUPPLY LINE(S) FROM THE SCENE BACK TO A WATER SUPPLY.
- **RIT**- (RAPID INTERVENTION TEAM). FORMED BY THE 2-IN/2-OUT RULE FROM **OSHA**. THE MEMBERS OUTSIDE ARE READY TO AID IN THE EMERGENCY REMOVAL OF TRAPPED / INJURED FIREFIGHTERS. THEY MAY BE ASSIGNED OTHER DUTIES, BUT MUST REMAIN IMMEDIATELY AVAILABLE FOR RESCUE. SHOULD HAVE EXTRA **SCBA** SUPPLY, ROPE, TOOL & EQUIPMENT NECESSARY TO CARRY OUT THEIR DUTIES.
- **RUNG**- THE HOIZONTAL PORTION BETWEEN THE BEAMS OF A LADDER, USED TO STEP ON.

S

- **SAFETY OFFICER (SO)**- PERSON(S) TO OVERSEE THE SAFETY OF OPERATIONS AND PERSONNEL. HAS AUTHORITY TO HALT OPERATIONS IMMEDIATELY AS DEEMED NECESSARY.

- **SALVAGE**- FIREFROUND OPERATIONS DIRECTED AT PROTECTION OF PROPERTY AND REMOVAL / REDIRECTION OF WATER TO PREVENT DAMAGE.
- **SAR**- SEARCH & RESCUE
- **SARA TITLE III**- (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) {1986} "RIGHT TO KNOW ACT," WHICH ALLOWS FOR **HAZMAT** INFORMATION TO BE DISTRIBUTED. FOR FURTHER INFO, RESEARCH CERCLA AND RCRA ALSO. ESTABLISHED THE **SUPERFUND** PROGRAM FOR HAZWASTE CLEANUP AND ENUMERATION OF SITES.
- **SECTOR**- SIDES OF A SCENE WITH "A" ON THE ADDRESS SIDE, LABELED CLOCKWISE TO "D".
- **SCBA**- (SELF CONTAINED BREATHING APPARATUS) THE ASSEMBLY OF HARNESS, REGULATOR, TANK, HOSES AND MASK WORN ON A FIREFIGHTERS BACK TO PROVIDE AN AIR SUPPLY. ALSO KNOWN AS *AIR PACK*.
- **SFM**- SIMPLE FACE MASK; PROVIDED MEDIUM CONCENTRATION OF SUPPLEMENTAL OXYGEN TO PATIENTS, APPROXIMATELY 40% TO 70% AT FLOWS OF 6-12 LITERS PER MINUTE.
- **SIAMESE**- APPLIANCE FOR MERGING TWO OR MORE LINES INTO ONE, SUCH AS 2-3" LINES FROM A SUPPLY INTO A 5" LDH. MAY CONTAIN A **CLAPPER VALVE**. *SEE ALSO WYE*.
- **SLUDGE**- ACRONYM FOR SIGNS / SYMPTOMS OF ORGANOPHOSPHATE POISONING; **S**ALIVATION, **L**ACRIMATION, **U**RINATION, **D**EFICATION, **G**I UPSET, AND **E**DEMA (WATER IN THE LUNGS).
- **SMC**- SENSORY, MOTOR AND CIRCULATION, *SEE PMS*.
- **SMOKE EXPLOSION**- *SEE BACKDRAFT*.
- **SMOOTH BORE NOZZLE**- DOES NOT BREAK UP THE FIRE STREAM INTO SMALLER DROPLETS; A CONCENTRATED STREAM. **NOZZLE** IS OPEN FROM ORIFICE TO COUPLING. *SEE ALSO STRAIGHT STREAM*.
- **SOFT SUCTION**- SUPPLY HOSE CONNECTED TO THE **STEAMER PORT** OF A **HYDRANT** TO SUPPLY LARGE FLOW OF WATER TO THE APPARATUS PUMP. MADE SIMILAR TO ATTACK HOSE, IN SIZES OF 4 ½ INCH TO 6-INCH.
- **SOG**- STANDARD OPERATING GUIDELINE. *SEE SOP*
- **SOP**-STANDARD OPERATING PROCEDURE. A WRITTEN SET OF EXPECTATIONS THAT AN ORGANIZATION USES TO SET A STANDARD OF PERFORMANCE. ALTHOUGH NOT **POLICY**, SOG/SOP ARE INTENDED FOR DAILY OPERATIONAL GUIDANCE.
- **SPANNER WRENCH**- HANDHELD TOOL USED TO TURN HOSE COUPLINGS, PRY OPEN WINDOWS, TURN OFF GAS VALVES, ETC. THESE ARE CARRIED ON ALL APPARATUS, USUALLY IN PAIRS. FOLDING MODELS ARE HANDY WHEN KEPT IN A COAT POCKET.

- **SPECIALIST-** PERSON ABOVE THE TECHNICIAN LEVEL WHO POSSESSES IN-DEPTH KNOWLEDGE OF A **HAZMAT** OR ITS PROPERTIES. OFTEN UTILIZED AS CONSULTANTS.
- **SPRINKLER-** AN INSTALLED FIRE PROTECTION SYSTEM THAT EXPELS WATER OR OTHER AGENT ONTO A FIRE DURING THE INCIPIENT PHASE TO CONTAIN IT UNTIL ARRIVAL OF THE FIRE DEPARTMENT. CLASSIFIED AS A **WET-** OR **DRY SYSTEM**, THEY USE HEAT ACTIVATED **HEADS** TO HOLD THE SYSTEM IN CHECK UNTIL ACTIVATION.
- **STAGING AREA-** A HOLDING AREA FOR PERSONNEL AND EQUIPMENT TO MAINTAIN READINESS AND KEEP THEM OUT OF THE WAY OF SCENE OPERATIONS.
- **STEAM-**CONVERSION OF WATER FROM A LIQUID TO A VAPOR, EXPANDING APPROXIMATELY 1700 TIMES IN VOLUME AND CONTAINING MORE HEAT ENERGY THAN ITS 212-DEGREE BOILING POINT. CAN BE USED TO ABSORB HEAT FROM FIRES, REDUCING THE FUEL TEMPERATURES TO A POINT BELOW THEIR FLASH OR IGNITION POINTS.
- **STEAMER PORT-** LARGER CONNECTION ON A **HYDRANT** FOR FIRE DEPT. USE TO OBTAIN LARGE VOLUMES. IN EARLIER DAYS, THE STEAMER PORT WAS ONLY PLACED ON LOW-FLOWING HYDRANTS TO ALLOW THE "NEW" STEAM ENGINES TO **DRAFT** FROM THE WATER MAINS TO DEVELOP AN ADEQUATE WATER SUPPLY DUE TO THE LOW PRESSURES EXISTING IN MOST MUNICIPAL SYSTEMS.
- **STORTZ-** BRAND NAME OF HOSE AND APPLIANCE COUPLINGS WITH IDENTICAL CONNECTIONS ON EACH SIDE, REQUIRING A QUARTER TURN TO CONNECT.
- **STRAIGHT LAY-** STRETCHING SUPPLY LINE(S) FROM A WATER SUPPLY TO THE SCENE. ALSO KNOWN AS FORWARD LAY.
- **STRAIGHT STREAM-** FIRE STREAM PRODUCED BY A FOG **NOZZLE** TO PROVIDE LONGER REACH AND PENETRATION. SIMILAR TO A SMOOTH BORE'S STREAM, BUT IS BROKEN UP BY THE INTERNAL MECHANISM OF THE FOG NOZZLE.
- **STRUCTURE PROTECTION-** IN A **WUI** SITUATION, THE CREW THAT IS TASKED TO PROTECT STRUCTURES WHILE THE FIRE OVERRUNS IT. DRY **CLASS "A"** FOAM MAY BE APPLIED TO THE WALLS AND ROOF AND THE SURROUNDING AREA PRETREATED TO PROTECT AGAINST RADIANT HEAT. FIRE RETARDANT GELS HAVE ALSO BEEN USED SUCCESSFULLY IN PLACE OF FOAM. SEE ALSO **WUI** AND **CAFS**.

T

- **TACTICAL WORKSHEET-**THE DOCUMENT PREPARED BY THE **IC** TO RECORD OBJECTIVES AND BENCHMARKS FOR THE MITIGATION OF AN INCIDENT. HEAVILY STRESSES **ACCOUNTABILITY** AND SAFETY

- **TALK AROUND-** RADIO TRAFFIC THAT GOES DIRECTLY FROM ONE RADIO TO ANOTHER, DOES NOT USE A **REPEATER** TO BOOST THE SIGNAL. GENERALLY THE "OUTPUT" CHANNEL ON A **REPEATER**, IT ALLOWS FOR SHORT RANGE COMMUNICATIONS WITHOUT TYING THE **REPEATER** UP. ALLOWS FOR TRAFFIC ON THE REPEATER TO BE HEARD. ALSO KNOWN AS "*DIRECT*" CHANNEL
- **TANKER-AIRCRAFT** USED IN WILDLAND FIREFIGHTING TO MAKE DROPS OF WATER OR RETARDANT. GENERALLY ACCEPTED AS A LARGE-FRAME AIRCRAFT. SEE ALSO **BOMBER, TENDER**.
- **TANKER SHUTTLE-** CONTINUOUS RELAY OF WATER TANKERS TO REFILL THE **PORTABLE TANKS** AT A SCENE REMOTE FROM A WATER SOURCE.
- **TECHNICIAN-** TRAINING LEVEL ALLOWING PERSONNEL TO AGGRESSIVELY MITIGATE THE **HAZMAT** EMERGENCY IN AN OFFENSIVE FASHION. LEVEL 3
- **TENDER-** (KNOWN IN LOCAL STRUCTURE FIREFIGHTING AS A TANKER) CARRIES A MINIMUM OF 1000 GALLONS OF WATER TO RESUPPLY A PUMPER IN AREAS WHERE MUNICIPAL **HYDRANTS** ARE NOT AVAILABLE. MAY ALSO HAVE A PUMP, HOSE, AND **PORTABLE TANKS**.
- **TIC-** (THERMAL IMAGING CAMERA) USES INFRARED WAVELENGTHS TO CAPTURE AN IMAGE, ENABLING FIREFIGHTERS TO SEE THROUGH DENSE SMOKE, DARKNESS, ETC. DETECTS DIFFERENCES IN HEAT ENERGY, AND DISPLAYS IMAGE ON A SMALL MONITOR, IT CAN BE HAND CARRIED OR HELMET MOUNTED.
- **TILLERMAN-** SEE ALSO AERIAL; DRIVER OF REAR SECTION OF LADDER TRUCK.
- **TLV-**THRESHOLD LIMIT VALUE
- **tone-** RADIO BROADCAST FROM DISPATCH WHICH ACTIVATES THE FIREFIGHTER'S RADIO. AUDIBLE TONES ACTIVATE THE RADIO TO PERFORM A FUNCTION, SUCH AS OPEN THE AUDIO CIRCUIT TO ALLOW A MESSAGE TO BE HEARD. SUBAUDIBLE TONES ARE NOT HEARD, BUT ALSO TELL THE RADIO TO PERFORM A FUNCTION, USUALLY USED IN SELECTIVE GROUPINGS, TO KEEP UNWANTED TRAFFIC FROM BEING HEARD BY THE USER. ALSO KNOWN BY THE TRADE NAMES OF CHANNEL GUARD (GE) AND PRIVATE LINE (MOTOROLA). ABBREVIATED AS PL TONES, MAY BE DIGITALLY TRANSMITTED <DPL>.
- **TOOL-** ITEM USED TO PERFORM WORK.
- **TOWER LADDER-** STRAIGHT **AERIAL** LADDER WITH A BUCKET AT THE END. MAY HAVE A BOOM SECTION ABLE TO OPERATE BELOW GRADE.
- **TRACTOR-** THE FRONT PART OF A TWO-PIECE **AERIAL** DEVICE WHICH PROVIDES THE POWER TO PULL THE LADDER.
- **TRENCH-** OPENING THAT IS DEEPER THAN WIDE, AND RESTRICTS MOVEMENT OR ESCAPE.
- **TRUCK-** *SEE AERIAL*

- **TURNOUTS**-SEE PPE.

U

- **UC**- UNIFIED COMMAND
- **UEL**- UPPER EXPLOSIVE LIMIT; HIGHEST CONCENTRATION THAT WILL EXPLODE.
- **UFL**-UPPER FLAMMABLE LIMIT. CONCENTRATIONS OF VAPORS HIGHER THAN THIS ARE TOO RICH TO COMBUST
- **UNIFIED COMMAND SYSTEM**- INCIDENT COMMAND SYSTEM UTILIZING PERSONNEL FROM MULTIPLE AGENCIES TO MITIGATE INCIDENTS. USUALLY THE **IC** WILL BE FROM THE AGENCY WITH THE MAJOR LIFE THREAT. LARGE INCIDENTS HAVE PERSONNEL FROM MULTIPLE AGENCIES TO MANAGE THE ARMY OF RESPONDERS.
- **USAR**- URBAN SEARCH & RESCUE
- **USFS**-UNITED STATES FOREST SERVICE; FEDERAL AGENCY RESPONSIBLE FOR WILDLAND FIREFIGHTING ON GOVERNMENT LANDS..

V

- **VAPOR DENSITY**- PHYSICAL PROPERTY OF A GAS THAT IDENTIFIES IF LIGHTER OR HEAVIER THAN AIR. AIR HAS A VAPOR DENSITY OF 1, **LNG** IS <1 AND **LPG** IS >1.
- **VENTILATION**- SYSTEMATIC AND PLANNED REMOVAL OF HEATED SMOKE & GASES FROM AN AREA. *SEE PPV*. IMPROPER **V-**. WILL LEAD TO **BACKDRAFT**.

W

- **WARM ZONE**- BUFFER ZONE WHERE DECONTAMINATION TAKES PLACE. LIES BETWEEN THE **HOT** AND **COLD ZONES**.
- **WATER GONG**- A BELL MOUNTED ON THE EXTERIOR OF A BUILDING THAT IS ACTIVATED BY RUNNING WATER COMING FROM AN ACTIVATED FIRE PROTECTION SYSTEM. A STREAM OF WATER WILL BE VISIBLE NEARBY. INDICATES AN ACTIVATED **SPRINKLER** SYSTEM AND **HEAD (S)** THAT NEED TO BE REPLACED.
- **WATER HAMMER**- SUDDEN MOVEMENT OF WATER THROUGH THE PUMP, HOSE, **NOZZLE**, APPLIANCES, ETC. THAT CAUSES STRESS AND FORCES OUTSIDE THE NORMAL USE RANGE. CAN CAUSE DAMAGE TO ALL OF THE ABOVE ITEMS. EXAMPLE IS WHEN FLOWING WATER A HOSELINE SUDDENLY SHUTS DOWN AND THE HOSE "JUMPS" FROM THE BACKUP OF PRESSURE.

- **WET SYSTEM-** A **SPRINKLER** SYSTEM THAT HAS WATER STORED IN THE BRANCH LINES UNDER PRESSURE. SEE ALSO ***DRY SYSTEM.***
- **WILDLAND-**PERTAINING TO NATURAL COVER OR UNIMPROVED LANDS.
- **WFAS-**WILDLAND FIRE ASSESSMENT SYSTEM
- **WMD-** WEAPONS OF MASS DESTRUCTION
- **WUI-** (WILDLAND / URBAN INTERFACE) HOMES ARE OFTEN BUILT IN THE NATURAL SETTINGS OF OUR STATE. THESE ARE CLOSE TO WOODLANDS, TALL GRASS, BRUSH, ETC. A DEFENSIBLE SPACE MUST BE MAINTAINED AROUND THE HOME, AS WELL AS OTHER MEASURES TO AID IN FIRE SAFETY. WUI SCENES MAY INCLUDE NARROW DRIVEWAYS, WOODEN SHINGLES, ETC. **STRUCTURE PROTECTION** IS PERFORMED AFTER A RISK / HAZARD ANALYSIS TO DETERMINE IF THE STRUCTURE IS SAFELY SALVAGEABLE. WUI CONCEPTS HAVE GROWN FROM THE WILDFIRES IN THE WESTERN U.S. SEE www.firewise.org FOR FURTHER INFO.
- **WYE-** APPLIANCE FOR DIVIDING ONE HOSELINE INTO TWO. MAY BE SMALLER OR SAME SIZE AFTER DIVISION AND MAY CONTAIN A **CLAPPER VALVE**. AVAILABLE IN GATED AND NON-GATED. *SEE ALSO SIAMESE.*