

NORTH CAROLINA OFFICE OF STATE FIRE MARSHAL

Equivalencies to the NC RRS Criterion for Equipment and Hose

Pumper Equipment (Table 512.A)

Item	Needed	Equivalency
Booster Tank	300 gallons	300 gallons or larger
Booster Hose	200 feet	1½ or 1¾ in. preconnected hose
1½ in. Hose	400 feet	1¾ or 2 in. hose
2½ in. or Larger Hose	1,200 feet	The first 400 feet can be 2, 2½ or 3 in.; the remaining 800 feet must be 2½ in. or larger hose
Heavy Stream Appliance (1,000 gpm)	1	It is not needed when the Basic Fire Flow is less than 1,500 gpm. A mounted, elevated, or portable appliance is acceptable.
Distributing Nozzle (1½ in. min.)	1	1½ or 2½ in. piercing nozzle. 1½ in. distributing nozzle
Foam Nozzle (1½ in. min.)	1	1½ or 2½ in. eductor. Built-in proportioning system. CAFS
Foam	25 gallons, of which 10 gallons is carried on the pumper	Any Class A or B type UL Approved foam liquid concentrate. Wetting agents, emulsifiers, and surfactants are NOT acceptable for credit as foam.
2½ in. straight stream & spray with shutoff	2	200 gpm nozzles. 1¾ in. combination vari-nozzle tip nozzles with a 2½ in. adapter.
1½ in. straight stream & spray with shutoff	2	1¾ in. combination nozzle with 1½ in. coupling
Breathing Equipment (30-minute minimum)	4	4 @ 30 minute or longer duration
Spare SCBA Cylinders (30-minute minimum)	4	4 @ 30 minute or longer duration. Portable air cascade or air filling station is <u>not</u> deemed equivalent
Salvage Covers (12 ft. x 18 ft.)	2	12 x 14 feet canvas or rip-stop plastic
Electric Handlight (4V. wet, 6V. dry)	2	Rechargeable 6v handlight
Hose Clamp	1	2½, 3 in. or LDH hose clamp
Hydrant Hose Gate (2½ in.)	1	4-way valve, LDH manifold, trimese
Burst Hose Jacket (2½ in.)	1	2½, 3 in. or LDH hose clamp
Gated wye 2½ x 1½ x 1½ in.	1	Water thief, 2½ in. gated wye with 1½ in. reducers
12 or 14 foot roof ladder	1	16 foot roof ladder
24 foot extension ladder	1	28, 30, or 35 foot extension ladder

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Ladder/Service Equipment (Table 544.A and 544.B)		
Item	Needed	Equivalency
Elevated Stream Device	1	Ladder pipe
Large Spray Nozzle (500-gpm minimum)	1	500 gpm or larger (may be carried on a pumper)
Breathing Equipment (30-minute minimum)	6	6 @ 30 minute or longer duration
Spare SCBA Cylinders (30-minute minimum)	6	6 @ 30 minute or longer duration. Portable air cascade or air filling station is <u>not</u> deemed equivalent
Salvage Covers (12 ft. x 18 ft.)	10	12 x 14 feet canvas or rip-stop plastic
Electric Generator (2500-watt)	1	PTO driven inverter – prorated based upon its capacity. Mini-generator floodlight -- prorated based upon its capacity. Mini-generator ventilation fan -- prorated based upon its capacity.
Floodlight (500-watt)	3	Tri-pod floodlight. Mini-generator floodlight.
Smoke Ejector	1	Positive pressure ventilation (PPV) fan. Mini-generator ventilation fan. Thermal imaging device.
Oxyacetylene Cutting Unit	1	Hydraulic or pneumatic cutting tool. Circular saw with composite blade. Thermal imaging device.
Saw – Power	1	Chain saw with carbide tip cutting blades. Thermal imaging device.
Electric Handlight (4V. wet, 6V. dry)	4	Rechargeable 6v handlight
Pike Pole (Plaster Hook)	2 @ 6 ft 2 @ 8 ft 2 @ 12'	6 @ various lengths, similar type tool with hook to pike pole.
Ladder 10 ft collapsible (attic)	1	10 ft folding
14 ft extension	1	14 ft combination
20 ft roof	1	16 ft roof (additional)
28 ft extension	1	24 ft extension
40 ft extension	1	35 ft extension (additional)

Miscellaneous Equivalencies		
Fire Hydrant – Dry Barrel	1,000 gpm	1,500 gpm
Fire Hydrant – Wet Barrel	1,000 gpm	1,500 gpm (ANSI/AWWA C-503-97)