

	TAC 435.1 NFPA 1851	C	N/C	NFPA 1851, 2020 Edition SECTION 2.0 ~ PROTECTIVE CLOTHING
	TAC 435.1			Purchase/provides/maintains PPE in accordance to NFPA 1851
*	TAC 435.1 NFPA 4.2.2			Maintain, provide to the commission annually and/or upon request, and comply with a departmental standard operating procedure regarding the use, selection, care, and maintenance of protective clothing which complies with NFPA 1851, Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles.
*	NFPA 4.2.3			No accessories on PPE w/o manufacture approval letter on file
	NFPA 4.2.4			The organization shall use one or any combination of appropriately trained organizations or service providers as defined in 4.2.4 (1-6) to perform advance cleaning, sanitation or disinfection, advance inspection, and repair services of ensembles and ensemble elements.
	NFPA 4.2.4.3 NFPA 11.1.1.4			Verification certificate to perform Advanced Cleaning/Inspections/Repairs by ISP
	NFPA 4.2.4.5.1			Training shall be provided by an element manufacturer of the same element type, a verified ISP, a verified organization, a verified cleaner, or any combination thereof.
	NFPA 4.2.4.5.3			The entity conducting the training shall provide documentation that the organization has received the required training and content per 4.2.4.5.2
	NFPA 4.2.4.5.4			Updated inspection/cleaning training within one year of any new revision of the standard or if a change in personnel overseeing the PPE program.
	NFPA Chapter 4			SECTION 2.1 ~ Records
	NFPA 4.3.1			The organization shall compile and maintain records of PPE and ensemble elements
	NFPA 4.3.2			Applies to rental and loaner PPE as well
*	NFPA 4.3.3 NFPA 4.3.5			Record Tracking system for each ensemble/element as listed below (rotating exchange included):
	NFPA 4.3.3(1)			Person to whom element is issued (not required in rotating exchange)
	NFPA 4.3.3(2)			Date and condition when issued
	NFPA 4.3.3(3)			Manufacturer and model name or design
	NFPA 4.3.3(4)			Manufacturer's identification number, lot number, serial number, or unique identifier
	NFPA 4.3.3(5)			Month and year of manufacture
	NFPA 4.3.3(6)			Date(s) & findings of advanced inspection(s)
	NFPA 4.3.3(7)			Date(s) and findings of advanced cleaning, disinfection or sanitization, or specialized cleaning
	NFPA 4.3.3(8)			Reason(s) for and who performed advanced cleaning, disinfection or sanitization, or specialized cleaning
	NFPA 4.3.3(9)			Date(s) of repair(s), who performed repair(s), and brief description of repair(s)
	NFPA 4.3.3(10)			Date of retirement
	NFPA 4.3.3(11)			Date and method of disposal
*	NFPA 4.3.4			Records maintained as required in Ch 4.3.3 on ensembles with liquid and particulate contaminant protection if applicable.
*	NFPA 4.4.1			Personnel provided manufacturers' instructions regarding the care, use, and maintenance
	NFPA 4.4.2			Manufacturer instructions to be followed
	NFPA 4.5			SECTION 2.2 ~ Protecting the public and personnel from exposure to contaminated PPE
*	NFPA 4.5.1			Written SOPs that minimize the public's and the fire department personnel's exposure to soiled or contaminated PPE
*	NFPA 4.5.2			Not worn/stored in living areas
*	NFPA 4.5.3			Prevent public exposure to PPE non-emergency
*	NFPA 4.5.4			Soiled or potentially contaminated PPE shall not be brought into the home, taken to public facilities, or transported in private vehicles
*	NFPA 4.6			Reporting PPE known or suspected failures to element manufacturer and certification organization in writing and request written acknowledgement within 30 days.

	NFPA Chapter 5		SECTION 2.3 ~ Selection
*	NFPA 5.1.1 TAC 435.1(4)		Risk Assessment Performed (see the standard NFPA 1851 Chapter 5.1.2)
*	NFPA 5.1.1.2		Review or conduct a new risk assessment at least every 2 years or:
*	NFPA 5.1.1.2(1)		When there are changes that affect the findings of the current risk assessment
*	NFPA 5.1.1.2(2)		When there are changes in the organization's standard operating procedures (SOPs)
*	NFPA 5.1.1.2(3)		When PPE or ensemble elements are being considered for selection and purchase
*	NFPA 5.1.2		Risk Assessment shall include:
	NFPA 5.1.2(1)		Type of duties performed
	NFPA 5.1.2(2)		Distinguishing response activities for different potential incidents
	NFPA 5.1.2(3)		Organization's experiences
	NFPA 5.1.2(4)		Incident operations
	NFPA 5.1.2(5)		Geographic location and climate
	NFPA 5.1.2(6)		Specific physical area of operation
	NFPA 5.1.2(7)		Likelihood of or response to CBRN terrorism incident
	NFPA 5.1.2(8)		Need for two sets of ensemble elements or spare ensemble elements
	NFPA 5.1.4		NFPA 1971 compliant by a third-party organization
	NFPA 5.1.6		The organization shall ensure the proper interface between ensemble elements
	NFPA Chapter 6		SECTION 2.4 ~ Inspection
*	NFPA 6.1.1		Universal precautions as appropriate when handling ensemble elements. (Min. NFPA 1999 gloves).
*	NFPA 6.1.2		Soiled or contaminated PPE shall be cleaned before inspection. CBRN cont. shall be retired.
*	NFPA 6.1.3		Guidelines established to determine when PPE is soiled to an extent that cleaning is necessary
*	NFPA 6.1.4		Actions established by organization if PPE needs cleaning/decontamination/repair
	NFPA 6.1.4.2		Where a condition exists that is beyond basic repair, the element shall be removed from service, tagged and sent for repair.
*	NFPA 6.2.1		Member shall conduct routine inspection of PPE upon issue/ at beginning of duty period / after each use
*	NFPA 6.2.2		Routine inspection, for each ensemble element, as specified in Chapters 6.2.2.1 through 6.2.2.7. (must be in written policy)
*	NFPA 6.3.3		Advance inspection annually or when routine inspection determines potential damage.
	NFPA 6.3.3.1		Properly stored PPE not subject to advance inspection
*	NFPA 6.3.5– 6.3.7		Advance inspection criteria per standard for each ensemble element.
*	NFPA 6.4.3		Complete liner inspection conducted annually and whenever a routine inspection determines potential damage.
*	NFPA 6.4.4		Complete Liner inspection findings shall be documented
	NFPA 6.4.5		Liner inspection shall include: (see the standard for specifics NFPA 6.4.5.1, 6.4.5.2, 6.4.5.3)
	NFPA 6.4.5.2		The moisture barrier shall be tested using the hydrostatic test with no leakage results
	NFPA Chapter 7		SECTION 2.5 ~ Cleaning and decontamination
	NFPA 7.1.1		Organizations shall provide a means for cleaning ensemble elements
*	NFPA 7.1.1.3		Preliminary exposure reduction (PER) shall be applied (CBRN, Hazardous cont. exception)
*	NFPA 7.1.1.4		SOP for field use relating to decision making process of cleaning & decontamination to include the use of fig. 7.1.1.2 (a & b) to assist in determining the appropriate cleaning procedures.
*	NFPA 7.1.1.5		Soiled or contaminated elements shall not be brought into the home, washed in home laundries, or washed in public laundries.
	NFPA 7.1.1.6		Commercial dry cleaning prohibited without manufacturer approval
*	NFPA 7.1.2.1		PPE & PPE elements shall be evaluated for PER, cleaning, disinfection, or sanitization after each use.
	NFPA 7.1.2.2		CBRN contaminated PPE & ensembles doffed ASAP, bagged, disposed of per regulations

*	NFPA 7.1.2.3			PPE & elements used in haz-mat incident subject to PER then eval. by qualified individuals
*	NFPA 7.1.2.5			PPE & elements soiled shall be subject to PER/advance cleaning per NFPA 7.1.1.2
*	NFPA 7.1.3			Approach for addressing specific types of contamination requires that the organization shall apply steps shown in Figure 7.1.1.2(b) and 7.1.3.1 thru 7.1.3.6
*	NFPA 7.2.1.1			PER procedure is implemented by organization as part of overall program for care and maintenance of PPE as per 7.2.2 thru 7.2.5
*	NFPA 7.3.3			Ensemble & ensemble elements that are soiled or contaminated shall be advanced cleaned.
	NFPA 7.3.4			Ensembles and ensemble elements that are issued and used shall receive advanced cleaning every six months. Advance cleaning must occur at time of advance inspection
*	NFPA 7.3.5			Advanced cleaning shall be conducted using a washer/extractor unless specifically prohibited 7.3.5(1-2) to be followed
	NFPA 7.3.6			Top-loading machines are prohibited for advanced cleaning of ensembles and ensemble elements or components.
	NFPA 7.3.6.1			Deviation from 7.3.5 requires instruction from MFG., verified cleaner or VISP
	NFPA 7.3.7			Detergents and cleaning agents are appropriate for ensemble elements.
*	NFPA 7.3.8			Universal precautions shall be applied in the washing of all soiled or contaminated ensembles or ensemble elements.
	NFPA 7.3.9			Where machine washing with a washer/extractor is specified, 7.3.9 (1-6) procedures shall be used.
	NFPA 7.3.10			Drying procedures as specified by air drying, Chapter 7.3.10.1(1) or cabinet drying, Chapter 7.3.10.1(2).
	NFPA 7.3.11.1			Additional requirements for Advanced Cleaning of garment elements is subject to use of washer or extractor, with appropriate formulation.
	NFPA 7.3.12.1			Additional requirements for Advance Cleaning of helmet elements requires that detachable or separate components shall be removed and washed and dried separately.
	NFPA 7.3.12.2			Additional requirements for Advance Cleaning of helmet elements requires that textile-based components are washed by hand or in washer or extractor with garments or hoods.
	NFPA 7.3.12.4			Additional requirements for Advanced Cleaning of helmet elements as required in Chapters 7.3.12.4(1) through 7.3.12.4(5).
	NFPA 7.3.13.1			Additional requirements for Advance Cleaning of gloves requires that gloves shall not be dried by mechanical tumbling or agitation methods.
	NFPA 7.3.13.2			Additional requirements for Advance Cleaning of gloves as required in Chapters 7.3.13.2(1) through 7.3.13.2(7)
	NFPA 7.3.14.1			Additional requirements for Advance Cleaning of footwear elements requires that the footwear shall not be washed or dried by mechanical tumbling or agitation.
	NFPA 7.3.14.2			Additional requirements for Advance Cleaning of footwear elements as required in Chapters 7.3.14.2(1) through 7.3.14.2(7).
	NFPA 7.3.15.1			Additional requirements for Advance Cleaning of hood elements permitted to be hand or machined washed as allowed by the manufacturer and according to the manufactures cleaning instructions.
	NFPA 7.3.15.3			Hoods permitted to be air or machine dried.
	NFPA 7.3.15.4			Advanced cleaning of particulate-blocking hoods shall be in accordance with procedures provided by the manufacturer
	NFPA 7.3.15.5			Where hoods are subjected to hand cleaning 7.3.15.5 (1-6) to be followed
	NFPA 7.3.16.1			Proximity fire-fighting protective ensembles and ensemble elements shall be cleaned in accordance with the same requirements as non-proximity fire-fighting protective ensembles and ensemble elements
	NFPA 7.3.16.2			Outer shell and other radiant reflective components of proximity fire-fighting protective ensembles and ensemble elements shall be cleaned using 1-4 of this section

*	NFPA 7.4			Disinfection or sanitization and biological decontamination of all ensemble elements and their components shall be according to the requirements specified in Chapter 7.4.
	NFPA 7.5			Specialized Cleaning of all ensemble elements and their components shall be according to the requirements specified in Chapter 7.5.
	NFPA Chapter 8			SECTION 2.6 ~ Repair
*	NFPA 8.1.3			PPE contaminated with CBRN agents shall be immediately retired
*	NFPA 8.1.4			All repairs and alternations must meet NFPA 1971
	NFPA 8.1.7			Original or replacement product labels shall be retained on ensemble elements after repairs are completed
	NFPA Chapter 9			SECTION 2.7 ~ Storage
*	NFPA 9.1.1			PPE not stored in direct or indirect sunlight, UV rays or fluorescent lights, while not being worn
*	NFPA 9.1.2			PPE shall be clean/dry before storage
	NFPA 9.1.3			PPE may not be stored in air tight containers unless new & unissued
	NFPA 9.1.4			PPE temp storage -25° F - 180° F
*	NFPA 9.1.5			Use of a bag or case is required when transporting PPE in an area that may cause damage
*	NFPA 9.1.6			Contaminated or soiled clothing/PPE when not being worn for operational duties, must be in an airtight protective case or bag when transported in the cab of fire apparatus.
*	NFPA 9.1.8			Proximity PPE shall be stored by hanging/not folded
	NFPA 9.1.9			Eye and face protection are readily accessible and stored to prevent thermal and mechanical damage and Haz-Mat contamination.
	NFPA 9.1.10			PPE storage area shall be clean, dry, well ventilated
	NFPA Chapter 10			SECTION 2.8 ~ Retirement, disposition, and special incident procedures
*	NFPA 10.1.1			Develop specific criteria for removal/retirement of PPE
*	NFPA 10.1.2 & 10.1.3			Mandatory retirement of Structural and Proximity PPE at 10 years from manufacture
*	NFPA 10.1.3.1			Proximity radiant reflective outer shell life 5 years
	NFPA 10.2.1			Retired PPE must be destroyed/disposed of to ensure not used in live fire
*	NFPA 10.1.8/10.2.2			PPE not damaged/defective/contaminated may be used for training but must be marked "non-live fire training only"
*	NFPA 10.3.1			Procedures for handling/custody of PPE worn by FF where serious injury/death of FF occurred
*	NFPA 10.3.2			Procedures must include minimum:
*	NFPA 10.3.2 (1)			Provisions shall be made for the immediate removal from service and preservation of all PPE utilized by the injured or deceased fire fighter.
*	NFPA 10.3.2 (2)			Custody of such ensembles and ensemble elements shall be maintained at a secure location with controlled, documented access
*	NFPA 10.3.2 (3)			PPE shall be nondestructively tagged and stored only in paper or cardboard containers to prevent further degradation or damage. Plastic or airtight containers shall not be used
*	NFPA 10.3.2 (4)			Examination of PPE shall be made by qualified members of the organization or by outside experts to determine the condition thereof
*	NFPA 10.3.3			The organization shall determine a specific period of time for retaining custody of PPE