NEW CONSTRUCTION INSPECTION CHECKLIST

WATER-BASED SYSTEMS

UNDER	GROUND
	Inspect installation and materials
	Hydrostatic test
	Flush
	If a backflow preventer is installed, backflow test certificate.
	Signed & dated Contractor's Material and Test Certificate for Underground Piping (NFPA 14)
STAND	
	Weld inspection (no longer required as of 1/1/2021)
	Rough (installation, restraints, earthquake bracing, etc.) & Hydro (min. 200 psi for 2 hours)
	Standpipe flow test (min. 500 GPM at most remote outlet plus min. 250 GPM at subsequent
	outlets on subsequent standpipe risers @ 100 psi min.)
	If the flow test results in a pump pressure of over 150 psi, then post a permanent sign on the
	FDC stating the pressure needed to provide a minimum of 100 psi at the most remote standpipe
	outlet)
	Final visual and spacing
	Post a permanent hydraulic design plate/information sign at the base of the riser
	Post a permanent sign on FDC (to indicate what it serves: standpipe, sprinklers, or both)
	FDC, if locked, has a break-away lock or provide a key in Knox Box
	Signed & dated Contractor's Material and Test Certificate for Aboveground Piping (NFPA 14)
OVEDH	EAD PIPING & SPRINKLERS
	Weld inspection (no longer required as of 1/1/2021)
	Rough (installation, restraints, earthquake bracing, etc.) & Hydro (min. 200 psi for 2 hours)
	Final visual and spacing
	Remove all tape, covers, etc. from sprinkler heads, control valves, tamper switches, etc.
	All floor valves are open and system is connected to a working water supply
	Post a permanent hydraulic design plate/information sign at the base of the riser
	Post a permanent sign on FDC (to indicate what it serves: standpipe, sprinklers, or both)
	Control valves, if locked, have a break-away lock and provide a key in the Knox Box
	Signed & dated Contractor's Material and Test Certificate for Aboveground Piping (NFPA 14)
	Signed & dated contractor's Waterial and Test certificate for Aboveground Fighing (WFFA 14)
FIRE PL	JMP
	Inspect installation and materials
	Hydrostatic test
	Flush
	Signed & dated Contractor's Material and Test Certificate for Fire Pump Systems (NFPA 20)
	Jockey pump start and stop set properly
	Fire pump start and stop set properly
	Line of sight from pump controller to fire pump is adequate
	Acceptance test (minimum of 6 manual starts and 6 automatic starts, w/emergency power)
	Pump controller signals are relayed to fire alarm control unit

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FIKE AL	LARM SYSTEMS	
	All rooms are labeled	
	Final visual and spacing	
	Test smoke detectors	
	Test duct detectors (ensure there is an access panel for maintenance and testingper	
	mechanical code, have an air pressure gauge reading of the pressure difference between the	
	sampling tube and exhaust tube)	
	Test tamper switches	
	Test water flow alarms	
	Test magnetic door holders	
	Test fire and/or smoke curtains, fire rated partitions	
	Test duct detectors and fire and/or smoke dampers	
	Short, Ground, End of Line NAC supervisory signals	
	24 hour battery test (confirm low-frequency sounders are installed in sleeping areas, notification	
	devices are synchronized)	
	Confirm candela setting on strobes, including in-unit strobes	
	For visible alarms in-units, ensure visible alarms activate upon FAS and smoke alarm activation	
	If stair doors are locked from the stairway side, test fail safe operation	
	Remove all tape, covers, etc. from initiation, notification, and other components of F.A.S.;	
	including in-unit smoke alarms/detectors and carbon monoxide alarms/detectors	
	If FACP is in a room or closet, provide a sign on the door indicating that the FACP is inside	
	System is being monitored	
	Signed and dated System Record of Completion (NFPA 72)	
ELEVA1		
	Test smoke detectors	
	Test duct detectors	
	Test heat shunt, if machine room is sprinklered	
	Test elevator recall and alternate landing	
	Test firefighter phase I and phase II	
	Test elevator communications	
	Ensure elevator has the proper address for the building	
	Provide elevator key in the Knox Box	
	Provide State of California Elevator Certification	
	If sprinklers are omitted in the elevator hoist way and/or machine room, provide a sign reading	
	"NO COMBUSTIBLE STORAGE PERMITTED IN THIS ROOM By Order of The Fire Marshal" (CBC	
	Section 3005.4.1, Item #6)	
TWO-WAY COMMUNICATION SYSTEM & AREAS OF REFUGE		
	Test each call station	
	Test command station and ensure floor lights are identified on the panel	
	If provided, ensure area of refuge is sized properly and has fire & life safety requirements	
	Ensure proper signage identifying how to use the call station	
	Ensure 2-way communication system recording has the proper location description	

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DOORS & DOOR FRAMES ☐ Proper installation of smoke gaskets & astragals on fire rated doors, including elevator fire doors ☐ Proper door closer operation ☐ Unlatching force (15 lbs or less) and opening/in-motion force (30 lbs or less) of fire doors ☐ Remove all protective stickers on fire rating labels ☐ If needed, provide "Door to Remain Unlocked When Building is Occupied" or similar sign on egress side above front door **EMERGENCY EGRESS LIGHTING** ☐ Provide adequate emergency lighting along egress path including exit discharge (min. 1 foot candle average, 90 minute back-up power) ☐ Provide adequate egress illumination along egress path (1 foot candle minimum) ☐ Exit signs properly located ☐ Pay additional fee for E-light inspection **FIRE & LIFE SAFETY** ☐ Inspect location and quantity of fire extinguishers ☐ Provide permanent evacuation plan signage ☐ Test a sampling of in-unit smoke alarms ☐ Test a sampling of emergency escape windows ☐ Provide address signage Knox Box with a minimum of 1 set of keys (master building including electrical/mechanical rooms, FACP, documents box, elevator reset and recall, ERRCS, fire extinguisher box, car stacker...label all keys) **EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS)** ☐ Inspect location & installation of UPS/battery charger ☐ Inspect location & installation of RF Signal Booster ☐ Inspect location & installation of antennae ☐ Inspect location & installation of BDAs ☐ Inspect NEMA 4 enclosure & security of mounting and latches ☐ Inspect wiring for proper pathway survivability ☐ Test AC power failure and test portable radio coverage on back-up power ☐ Test UPS/battery charger failure ☐ Test BDA failure ☐ Test antennae failure ☐ Test low battery capacity signal ☐ Test UPS battery failure (make sure this is the last test) Provide signage, near Knox Box, indicating ERRCS system

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HVAC		
	Ensure system is balanced and does not increase door opening pressures	
HAZARDOUS MATERIALS		
	Hazardous Materials Inventory Sheet and Hazardous Materials Management Plan to City of	
	Berkeley Toxics Division	
	Binder with MSDS available to Fire Department in case of an emergency	
	NFPA 704 signage	
	Site pre-plan located in Knox Box or Documents Box	
OPERATIONAL PERMITS		
	Assembly	
	Compressed Gas (CO2 used in beverage dispensing, CO2 enrichment, flammable gas, oxidizers	
	etc.)	
	Flammable and Combustible Liquids	
	Hazardous Materials	
	High-Piled Storage	
	Spraying/Dipping	
	Temporary Membrane Structures and Tents	
	Energy Storage Systems	
	Other	
FEES		
	Pay all fines, fees, etc. at the Permit Service Center	

Laboratories....should be an additional, separate check list

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