

YOUR LOGO HERE	ELECTRICAL • NEC 110.26 • NFPA 70B / 70E		PANEL ID	
	Commercial Electrical Panel Safety Inspection			
	One report per panel. Treat all parts as energized until tested. Energized work, torque checks, and IR surveys only by a qualified person under an NFPA 70E risk assessment.			
INSPECTION COMPANY		LICENSE # / PHONE		

A Panel & site identification

CUSTOMER / FACILITY		ACCOUNT #	BUILDING / FLOOR	SITE ADDRESS	
ROOM / AREA SERVED		PANEL DESIGNATION AS LABELED (MDP, DP-1, LP-2...)		MANUFACTURER	CATALOG / TYPE #
PANEL TYPE ☐ Service entrance ☐ Main distribution ☐ Panelboard ☐ Load center ☐ Switchboard ☐ Motor control center				ENCLOSURE NEMA RATING	VOLTAGE / PHASE / WIRE
MAIN BUS RATING (A)	MAIN BREAKER / MLO SIZE	CIRCUIT SPACES / POLES	SCCR / AIC MARKED	RATING ☐ Series-rated ☐ Fully-rated	
FED FROM (PANEL / TRANSFORMER)		FEEDER CONDUCTOR SIZE	FEEDER OCPD	AHJ	NEC / NFPA 70B EDITION ADOPTED
INSPECTION CYCLE ☐ Monthly ☐ Quarterly ☐ Semiannual ☐ Annual			INSPECTOR NAME	LICENSE / QUALIFIED-PERSON CERT #	
LAST INSPECTION DATE		PRIOR REPORT # / OPEN DEFICIENCIES			

B Pre-work safety & risk assessment

NFPA 70E • mark ✓ pass, ✗ fail (log in deficiencies), N/A

#	Item	Pass	Fail	N/A	Notes
1	Job briefing completed; energized-work risk assessment / energized electrical work permit reviewed where applicable	☐	☐	☐	
2	Arc-flash and shock boundaries identified; arc-rated PPE and voltage-rated gloves match the label or incident-energy analysis	☐	☐	☐	
3	Insulated tools and rated meter (CAT III / CAT IV) used; test instruments within calibration	☐	☐	☐	
4	Lockout / tagout applied and absence-of-voltage test performed before contact with conductors or removal of barriers	☐	☐	☐	
5	Scope defined: energized visual / IR survey vs. de-energized internal inspection and torque verification	☐	☐	☐	
6	Two-person rule / standby person in place for any work inside the shock-protection boundary	☐	☐	☐	

C Connections & torque

Use the manufacturer's value on the label inside the cover or on the breaker

#	Item	Pass	Fail	N/A	Notes
1	Main lugs / main breaker line and load terminations torqued to manufacturer's value; applied value recorded below	☐	☐	☐	
2	Neutral and equipment-ground bar terminations checked / torqued; one conductor per terminal unless listed for more	☐	☐	☐	
3	Feeder and branch breaker terminations checked / torqued with a calibrated torque tool	☐	☐	☐	
4	No stripped, skewed, or cross-threaded setscrews; over-tightened connections identified and corrected	☐	☐	☐	

D Working clearance & access

NEC 110.26 • dimensions commonly cited; confirm Condition 1/2/3 and adopted edition

#	Item	Pass	Fail	N/A	Notes
1	Working depth clear (commonly cited 36 in / 914 mm for 0–150 V to ground)	☐	☐	☐	
2	Working width clear (greater of 30 in / 762 mm or equipment width); doors and hinged panels open a full 90°	☐	☐	☐	

#	Item	Pass	Fail	N/A	Notes
3	Headroom clear (commonly cited 6 ft 6 in / 2.0 m); no pipes, ductwork, or overhead obstructions	☐	☐	☐	
4	Dedicated equipment space above panel (commonly cited 6 ft or to structural ceiling) free of foreign piping, ducts, storage	☐	☐	☐	
5	No storage, materials, or fixtures encroaching on the working space; floor area clear	☐	☐	☐	
6	Illumination adequate at the working space; panel not relied on as sole light	☐	☐	☐	
7	At least one entrance of sufficient area to the working space; egress not blocked	☐	☐	☐	
8	Panel accessible without removing obstacles or passing through locked spaces controlled by others	☐	☐	☐	

E Labeling, identification & arc-flash marking

#	Item	Pass	Fail	N/A	Notes
1	Arc-flash label present, legible, dated; shows nominal voltage plus incident energy (cal/cm ²) and working distance OR PPE category (not both)	☐	☐	☐	
2	Arc-flash / shock-hazard marking matches latest study; study revision date recorded and not expired per facility policy	☐	☐	☐	
3	Available fault current and calculation date marked on equipment (where required)	☐	☐	☐	
4	Service-entrance marking and maximum available fault current label present on service equipment	☐	☐	☐	
5	Panel directory / circuit schedule complete, legible, and current; spare and unused circuits identified	☐	☐	☐	
6	Each overcurrent device clearly and durably identified as to purpose; no ambiguous handwriting	☐	☐	☐	
7	Disconnecting means clearly marked and the load it controls identified	☐	☐	☐	
8	Warning, restricted-access, and energized-equipment signage present, intact, and readable	☐	☐	☐	

F Enclosure, bus & breaker condition

#	Item	Pass	Fail	N/A	Notes
1	Enclosure free of corrosion, rust, water intrusion, condensation, and pest entry; rated for the environment	☐	☐	☐	
2	Deadfront and all blank fillers in place; no open knockouts, missing twistouts, or exposed energized parts	☐	☐	☐	
3	Cover, hinges, latches, and locking provisions intact; door closes and seals properly	☐	☐	☐	
4	No signs of overheating (discoloration, melted insulation, charring, burnt odor) at breakers, bus, or terminals	☐	☐	☐	
5	Bus bars, breaker stabs, and connections free of pitting, arcing tracks, corrosion, and discoloration	☐	☐	☐	
6	Breakers seated firmly on bus; handles operate freely; no cracked cases or broken handles	☐	☐	☐	
7	Breakers exercised (off / on) where allowed, or noted as due per maintenance schedule	☐	☐	☐	
8	No double-tapped breakers, unlisted breaker / panel combinations, or improper brands used as fillers	☐	☐	☐	
9	Conductor insulation undamaged; no nicks, overheating, brittleness, or insulation pulled past the lug	☐	☐	☐	
10	Wire bending space and gutter fill within limits; conductors dressed and not strained at terminations	☐	☐	☐	
11	Panel not overcrowded; number of circuits within the panel's listed maximum	☐	☐	☐	

G Grounding, bonding & protective devices

#	Item	Pass	Fail	N/A	Notes
1	Main bonding jumper present and intact; neutral-to-ground bond made at the service disconnect only	☐	☐	☐	
2	Subpanels: isolated (floating) neutral bar, no neutral-to-ground bond, no shared neutral / ground terminations	☐	☐	☐	

#	Item	Pass	Fail	N/A	Notes
3	Grounding electrode conductor and equipment grounding conductors landed, sized, and free of corrosion or looseness	☐	☐	☐	
4	Bonding continuity to enclosure and metallic raceway confirmed; bonding bushings present where required	☐	☐	☐	
5	GFCI protection tested (test button / tester); trips and resets correctly	☐	☐	☐	
6	AFCI protection tested with test button; trips and resets correctly	☐	☐	☐	
7	Surge protective device (SPD), where installed, shows normal status; connections sound	☐	☐	☐	

H Torque record

Torque tool ID and last calibration date: _____

Termination / location	Mfr. value	Applied value	Unit	Corrected	Notes	Init.
				☐		
				☐		
				☐		
				☐		
				☐		
				☐		

I Infrared thermography

#	Item	Pass	Fail	N/A	Notes / deficiency
1	IR survey performed under at least ~40% rated load with deadfront removed by a qualified thermographer	☐	☐	☐	
2	Each hot connection traced to lug, stab, breaker, splice, or bus and tagged for corrective action with priority	☐	☐	☐	
3	Load balancing reviewed where a phase shows heating from imbalance rather than a loose connection	☐	☐	☐	
4	IR baseline readings recorded for trending against prior and future inspections	☐	☐	☐	

HOT-SPOT SEVERITY BY ΔT (COMMONLY CITED NETA GUIDANCE)

1-3 °C Investigate / trend **4-15 °C** Repair as scheduling permits **16-40 °C** Repair soon **>40 °C** Above ambient: immediate / imminent failure

J Hot-spot log

Ambient: _____ ° Load: _____ % Emissivity: _____

#	Location / component (lug, stab, breaker, splice, bus)	Measured °	Reference °	ΔT	Severity	Priority	Image / tag #

K Load readings

Voltage within nominal tolerance and balanced

Measurement	A / L1	B / L2	C / L3	Neutral	OK	Notes
Voltage L-L (V)					☐	
Voltage L-N (V)					☐	
Current (A)					☐	

Measurement	Unit	Target / spec	Measured	OK	Notes
Calculated demand vs. bus and main breaker rating	A			☐	
Phase imbalance	%			☐	
Continuous load vs. OCPD rating, commonly cited 80% limit (flag oversized / undersized OCPD)	%	≤ 80%		☐	
Ground resistance / continuity (if in scope)	Ω			☐	
Power-quality observations (sag, flicker, harmonics)	n/a			☐	

L Results

OVERALL RESULT

☐ Pass ☐ Deficiencies noted ☐ Critical safety hazard ☐ Equipment removed from service

IMMEDIATE HAZARD FLAGGED (EXPOSED PARTS, BLOCKED CLEARANCE, FAILED BOND, IMMINENT-FAILURE HOT SPOT)

☐ None ☐ Yes: owner notified at once

M Deficiencies & corrective action

#	Circuit / location	Description	Severity	NEC / NFPA ref.	Corrective action / priority	WO / quote #

OWNER / REP. NOTIFIED (NAME)	CONTACT	DATE NOTIFIED	PHOTOS / THERMAL IMAGES (COUNT)	REFERENCE #S
NEXT INSPECTION DUE	INTERIM RE-SCAN DATES FOR MONITORED HOT SPOTS			

INSPECTOR SIGNATURE · LICENSE / CERT #	OWNER / AUTHORIZED REPRESENTATIVE SIGNATURE
PRINT NAME DATE	PRINT NAME DATE

Summarized from NEC, NFPA 70B, NFPA 70E, and NETA thermography practice. Clearances, label content, fault-current marking, torque values, and severity bands depend on edition, manufacturer, and conditions; verify with your AHJ, the adopted edition, the arc-flash study, and manufacturer specifications. This form is a starting point and does not replace inspection, testing, and maintenance by qualified personnel.