PIH-REAC is providing the following information to assist in properly identifying and mitigating electrical hazards that may exist on the property. This information presents common electrical hazards but does not represent a complete listing of electrical hazards that may exist on a property.

There are multiple types of electrical devices that may be found on properties. The three most common are shown below. They are:







#### The purpose of each device shown above:

- (A) Timer An electrical device that is used to automatically turn lighting, lawn sprinklers or other equipment on/off at a predetermined time and/or date.
- (B) Disconnect An electrical device designed to interrupt the flow of electricity to a specific piece of equipment or a specific area of a building and/or unit. While inspecting electrical equipment the inspector will not touch or move the "cut-off" handle.
- **(C) Panel** This electrical device contains either multiple breakers or fuses and is used to distribute power to multiple locations within a building and/or unit.

The following photos show different scenarios for the device and the protocol, defect (if applicable), level (if applicable), and the definition/guidance supporting the finding.

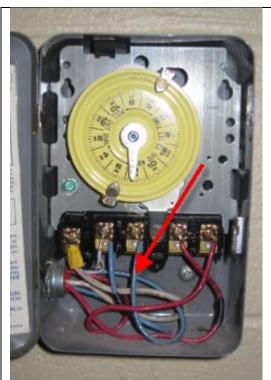
### ·Timers·



Scenario #1:	The timer door is observed to be <b>secured</b> .
Protocol:	Inspector must ensure that the device, whether it is a lock, zip tie, etc., is properly securing the door. If so, the inspector <b>will not</b> open this device.  The Compilation Bulletin defines secured as requiring a tool, key, cutters, etc. to open the cover.  (i.e., It cannot be opened with a bare hand.)
Defect:	No defect
Level:	N/A
Guidance:	Compilation Bulletin:  "Electrical System" – Only timers that are unsecured will be opened to inspect for defects.  This disconnect is secured and therefore will not be opened to inspect.



Scenario #2:	The timer door is observed to be <b>unsecured</b> .
Protocol:	Inspector <b>will</b> open cover to ensure that the interior cover is in place, secured, and that there are no exposed bare wiring and/or connections.
Defect:	No defect because the interior cover (shown by the arrow) is in place during the inspection.
Level:	N/A
Guidance:	Compilation Bulletin:  "Electrical System" - Timers that are not secured must be inspected provided that doing so will not interrupt electrical service.



	Scenario #3:	The timer door is observed to be <b>unsecured</b> .	
	Protocol:	Inspector will open cover to ensure that the	
		interior cover is in place, secured, and that there	
		are no exposed bare wiring and/or connections.	
	Defect:	Missing electrical cover which exposes bare	
		wiring and connections.	
	Level:	Level 3 for the missing interior cover and an	
		automatic system generated life threatening	
		health & safety (H&S) deficiency for the exposed	
		electrical wiring and connections.	
	Guidance/	Compilation Bulletin:	
	Definition:	"Electrical System" - Timers that are not secured	
		must be inspected provided that doing so will not	
		interrupt electrical service.	
AND		AND	
		<u>Dictionary of Deficiency Definitions</u> - "Electrical	
		System"	
		Level 3: A cover is missing, which results in	
		exposed visible electrical connections.	

# ·Disconnect designed <u>without</u> interior cover·



Scenario #1:	The disconnect door is observed to be <b>secured</b> .	
Protocol:	Inspector must ensure that the device, whether it is a lock, zip tie, etc., is properly securing the door. If so, the inspector will not open this device. The Compilation Bulletin defines secured as requiring a tool, key, cutters, etc. to open the cover. (i.e., It cannot be opened with a bare hand.)  While inspecting electrical equipment the inspector will not touch or move the "cut-off" handle.	
Defect:	No defect	
Level: Guidance:	N/A  Compilation Bulletin:  "Electrical System" - Disconnects that are not secured must be inspected provided that doing so will not interrupt electrical service.  This disconnect is secured and therefore will not be opened to inspect.	



Scenario #2:	The disconnect door is observed to be <b>unsecured</b> .
Protocol:	Inspector will open disconnect to inspect for any bare electrical wiring and/or connections that may be exposed.  While inspecting electrical equipment the inspector will not touch or move the "cut-off" handle.
Defect:	There is no defect for being unsecured unless doing so causes bare wiring and/or connections to be exposed. Because some disconnects are designed with an interior cover and some are not, the defect, if any, can only be assessed after opening cover of disconnect.
Level:	N/A
Guidance:	Compilation Bulletin: "Electrical System" Disconnects that are not secured must be inspected provided that doing so will not interrupt electrical service.



Scenario #3: The disconnect door is observed to		The disconnect door is observed to be <b>unsecured</b> .
<b>等一次和时间的</b>	Protocol:	Inspector will open disconnect to inspect for any bare electrical wiring and/or connections that may be exposed. This disconnect is not designed with an interior cover, but because the device is unsecured and the bare wiring and connections are exposed it is a defect.
	Defect:	Life threatening H&S deficiency caused by it being unsecured exposing bare connections.
TO THE TOTAL PROPERTY.	Level:	Level 3 - Life threatening H&S deficiency for the exposed bare connections.
	Guidance:	Compilation Bulletin: Regardless of the design, if the disconnect is found to be unsecured at the time of inspection and the bare wiring and/or connections are exposed it will recorded as life threatening H&S.

## ·Disconnect designed <u>with</u> interior cover·



Scenario #1:	The disconnect door is observed to be <b>secured</b> with the plastic zip tie.	
Protocol:	Inspector must ensure that the device, whether it is a lock, zip tie, etc., is properly securing the door. If so, the inspector <b>will not</b> open this device. The Compilation Bulletin defines secured as requiring a tool, key, cutters, etc. to open the cover.  (i.e., It cannot be opened with a bare hand.)	
Defect:	No defect	
Level:	N/A	
Guidance:	Compilation Bulletin:  "Electrical System" - Disconnects that are not secured must be inspected provided that doing so will not interrupt electrical service.  This disconnect is secured and therefore will not be opened to inspect.	



Scenario #2:	The disconnect door is observed to be <b>unsecured</b> .	
Protocol:	Inspector <b>will</b> open the disconnect door to inspect for any bare electrical wiring and/or connections that may be exposed.	
Defect:	There is no defect for being unsecured unless doing so causes bare wiring and/or connections to be exposed. Because some disconnects are designed with an interior cover and some are not, the defect, if any, can only be assessed after opening the exterior cover of the disconnect box.	
Level:	N/A	
Guidance:	Compilation Bulletin:  "Electrical System" - Disconnects that are not secured must be inspected provided that doing so will not interrupt electrical service.	



rotocol for Inspec	cting Electrical Devices	Revised Oct. 2010
Scenario #3:	<b>Unsecured</b> cover – when opene designed with an interior cover secured during the inspection.	
Protocol:	Inspector <b>will</b> open the discornensure that the interior coversecured, and that there are n	r is in place,
	wiring and/or connections.	
Defect:	No Defect	
Level:	N/A	
Guidance:	Compilation Bulletin:  "Electrical System" - Disconne secured must be inspected properties will not interrupt electrical.  This disconnect is unsecured.	rovided that doing I service.
	This disconnect is unsecured all the electrical wiring and covered by the interior covered.	onnections are

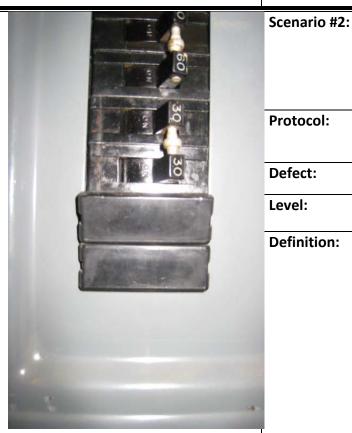


Scenario #4:	<b>Unsecured</b> cover – when opened this disconnect	
	is designed to have an interior cover and it is no	
	in place which causes bare wiring and	
	connections to be exposed.	
Protocol:	Inspector will open disconnect to inspect for any	
	bare wiring and /or bare electrical connections.	
Defect:	Missing interior cover exposing bare electrical	
	wiring and connections.	
Level:	Level 3 for the missing interior cover and an	
	automatic system generated life threatening	
	H&S deficiency for the exposed bare wiring and	
	connections.	
Guidance/	Compilation Bulletin:	
Definition:	"Electrical System" – Only disconnects that are	
	unsecured will be opened to inspect for defects.	
	AND	
	<u>Dictionary of Deficiency Definitions</u> –	
	"Electrical System"-	
	<u>Level 3</u> : A cover is missing, which results in	
	exposed visible electrical connections.	

### ·Panels ·



1	Scenario #1:	The electrical panel is observed to be <b>secured</b> at time of inspection.
	Protocol:	Inspector must inspect all electrical panel boxes observed during the inspection.
4	Defect:	No defect if property staff can readily provide inspector access to electrical panel.
9	Level:	N/A
	Guidance:	Compilation Bulletin: Electrical panels (breaker/fuse boxes) that are secured at the time of inspection must be made accessible to the inspector for inspection. Any electrical panel (breaker/fuse box) that is not made accessible will be recorded as "Blocked Access/Improper Storage".  Unlike the timer boxes and disconnects, all the electrical panels must be accessible during the inspection.



inspected two of the breakers have been	
removed, but the spaces are covered by "blanks",	
which are designed to prevent access to the	
electrical wiring and connections.	
Inspector must ensure that there is no exposed	
bare wiring and/or connections.	
No defect	
N/A	
<u>Dictionary of Deficiency Definitions</u> :	
Missing Breakers/Fuses (Electrical System)	
Deficiency: In a panel board, main panel board, or other electrical box containing circuit breakers, you see an open circuit breaker position that is not appropriately blanked off.	
Electrical tape and/or duct tape are not appropriate materials to blank off open breaker ports.	

Panel is observed to be **unsecured** and when



Scenario #3:	Panel is observed to be <b>unsecured</b> and when
	inspected two of the breakers have been removed
	and the spaces are found open.
Protocol:	Inspector must ensure that there is no exposed
	bare wiring and/or connections.
Defect:	Open breaker ports which expose bare
	connections.
Level:	Level 3 deficiency for the open breaker ports and
	an automatic system generated life threatening
	H&S for the exposed bare connections.
Guidance:	<u>Dictionary of Deficiency Definitions</u> :
	Missing Breakers/Fuses (Electrical System)
	Deficiency: In a panel board, main panel board, or other electrical box containing circuit breakers, you see an open circuit breaker position that is not appropriately blanked off.
	Electrical tape and/or duct tape are not appropriate materials to blank off open breaker ports.

### ·Additional Electrical Defects ·



Scenario:	Missing switch plate exposing bare wiring and connections.
Protocol:	Inspector <b>will</b> inspect for missing/damaged switch plates in all inspectable areas during the inspection.
Defect:	Missing switch plate.
Level:	Level 3 deficiency for the missing switch plate and an automatic system generated life threatening H&S for the exposed bare wiring and connections.
Definition:	Dictionary of Deficiency Definitions: Missing/Broken Cover Plates (Outlets/Switches)  Level 3: A cover plate is missing, which causes wires to be exposed.



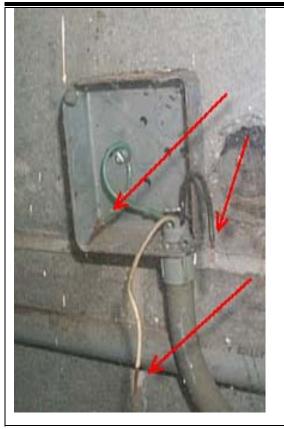
Scenario:	Missing outlet plate exposing bare wiring and
	connections.
Protocol:	Inspector will inspect for missing/damaged outlet
	plates in all inspectable areas during the
	inspection.
Defect:	Missing outlet plate.
Level:	Level 3 deficiency for the missing outlet plate and
	an automatic system generated life threatening
	H&S deficiency for the exposed bare wiring and
	connections.
Definition:	<u>Dictionary of Deficiency Definitions</u> :
	Missing/Broken Cover Plates (Outlets/Switches)
	Level 3: A cover plate is missing, which causes
	wires to be exposed.
1	



Scenario:	Upon entering the elevator mechanical room you
	observe the elevator motor covers have been
	removed exposing the bare wiring and
	connections.
Protocol:	Inspector will inspect this common area and if the
	inspector can determine that the motor was
	designed with exterior motor covers, a deficiency
	will be recorded for the missing cover(s) which
	expose the bare wiring and connections.
Defect:	Systems – Electrical System: Missing cover exposes
	bare wiring and connections.
Level:	Level 3 deficiency for the missing covers and an
	automatic system generated life threatening H&S
	deficiency for the exposed bare electrical
	connections.
Definition:	<u>Dictionary of deficiencies</u> : Missing Covers
	(Electrical System)
	Level 3: A cover is missing, which results in
	exposed visible electrical connections.



Scenario:	While inspecting the mechanical room you observe the "knock-out" missing from the side of this electrical panel.
Protocol:	Unlike timers and disconnects, when a "knock-out" is missing on a panel, regardless if bare connections or wiring exists, it will be recorded as a defect for having an opening in the electrical panel.
Defect:	The "knock-out" is missing creating an opening in the panel.
Level:	Level 3 - Life threatening H&S deficiency for having an opening in electrical panel.
Definition:	<u>Dictionary of Deficiency Definitions</u> : Exposed
	Wires/Open Panels (Electrical Hazards)
	Deficiency: You see exposed bare wires or openings in electrical panels.



Scenario:	Upon entering an inspectable area you observe this electrical box contains wiring that has bare ends that pose an electrical hazard.
Protocol:	When this is observed by the inspector it <b>will</b> be recorded as an electrical hazard.
Defect:	This will be recorded as a life threatening H&S for the exposed bare wiring.
Level:	Level 3 - Life threatening H&S deficiency for the exposed bare wiring.
Definition:	Dictionary of Deficiency Definitions: Exposed Wires/Open Panels (Electrical Hazards)  Deficiency: You see exposed bare wires or openings in electrical panels.