

Exhibits 136 and 137

Pages 898 - 901

Referred to:

**MULTI-NATIONAL FORCES-IRAQ
TASK FORCE SAFE – STANDARDS & INSPECTION TEAM**

(b)(2)High



**MULTI-NATIONAL FORCES-IRAQ
TASK FORCE SAFE - STANDARDS & INSPECTION TEAM**



(b)(2)High

REPLY TO:
ATTENTION OF
MNF-I TF SAFE - S&I Team

20 February 2009

Subject: Shock video narrative.

GROUNDING AND BONDING VIDEO EXPLANATION

VIDEO NUMBER ONE: (b)(3), (b)(6) introduction with credentials.

VIDEO NUMBER TWO: Information from the investigation surrounding the electrocution of the soldier at LSF1 facility and the amount of time it took the contractor to bring the building into code compliance. The rework of the facility began in January, 2008 and continued to October of 2008. This is the amount of time it took to bring the facility into code compliance and render it safe.

In this video (b)(3), (b)(6) explains that the bonding of the metal water pipe back to the source did not take place (b)(3), (b)(6) also notes that the equipment grounding conductor that was run to the water pump was cut off in the motor termination box. These are the two major electrical code violations which contributed to the soldier's death.

When the wire in the pumps motor termination box shorted to the pump housing, the wire carrying 230 volts energized the motor and the metal water pipe. Because there was no bonding and no equipment grounding conductor, the soldier's body became the conductor back to the source which caused the unfortunate death.

VIDEO NUMBER THREE: In this video (b)(3), (b)(6) gives a visual demonstration of what happens when you do not bond metal water pipes.

(b)(3), (b)(6) has landed a wire that will be energized when he turns the breaker on to an un-bonded water pipe and he uses a light to provide a visual indication of dangerous and potentially lethal voltage.

(b)(3), (b)(6) has in his hand the bonding wire that should have been connected to the water pipe. If this wire was in place, as soon as (b)(3), (b)(6) turned the breaker on it would have tripped the breaker and removed the dangerous voltage. As (b)(3), (b)(6) touches the pipe with this bonding wire it demonstrates what would have happened if it were installed per the NEC or BS 7671. The breaker trips immediately when he touches the metal pipe with the bonding wire. In the unfortunate case of the soldier he became the bonding wire and became the path for electricity back to the source killing him.

One of the most dangerous and egregious code violations for an electrician to do is to fail to bond normally non-current carrying conductive material likely to become energized back to the source. This code violation is what caused the unfortunate death of the soldier in LFS1

VIDEO NUMBER FOUR: Demonstrates a properly bonded pipe.

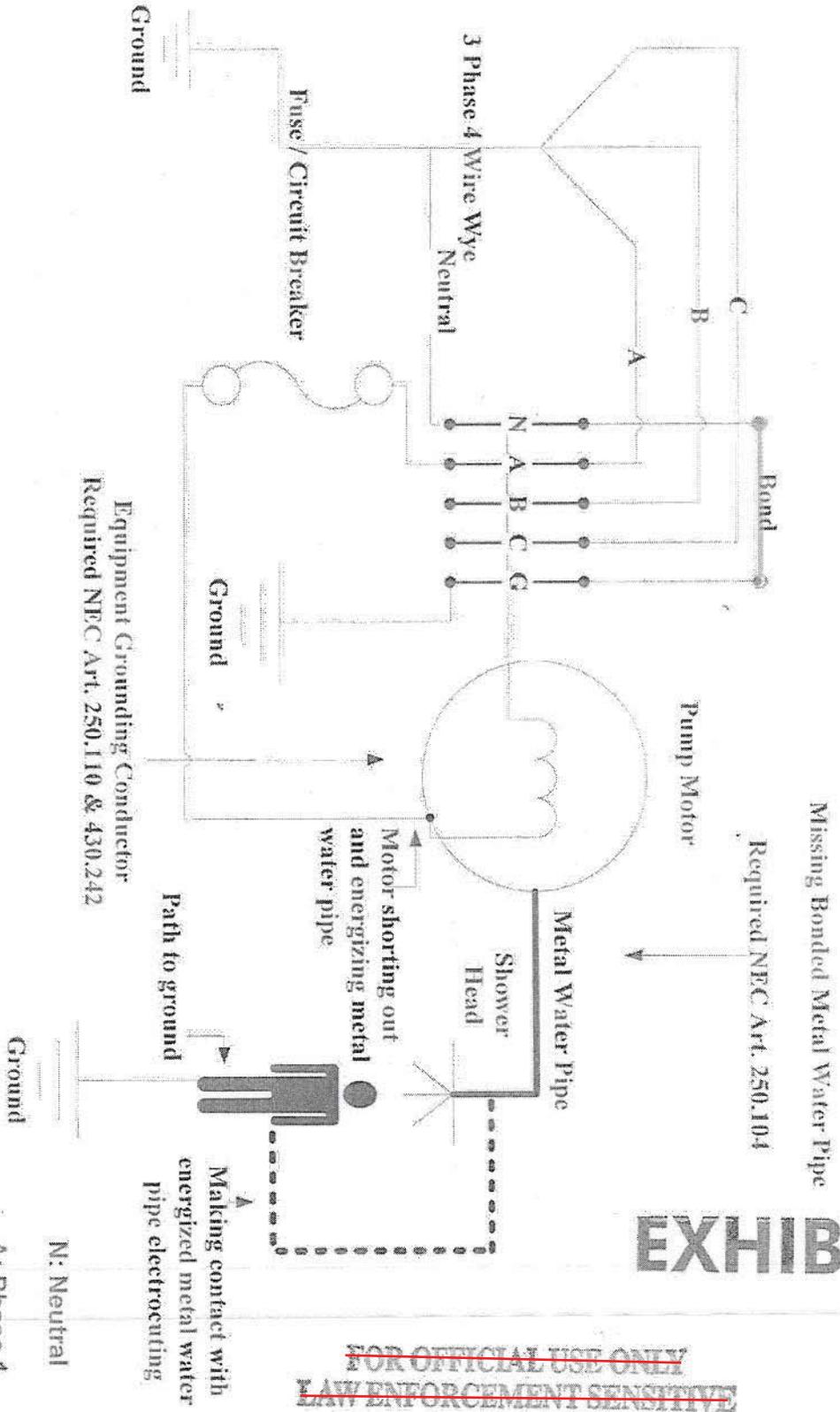
(b)(3), (b)(6)

Chief Electrician/SME
Task Force Safe

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LAW ENFORCEMENT SENSITIVE

EXHIBIT 136

Not Properly Grounded & Bonded System



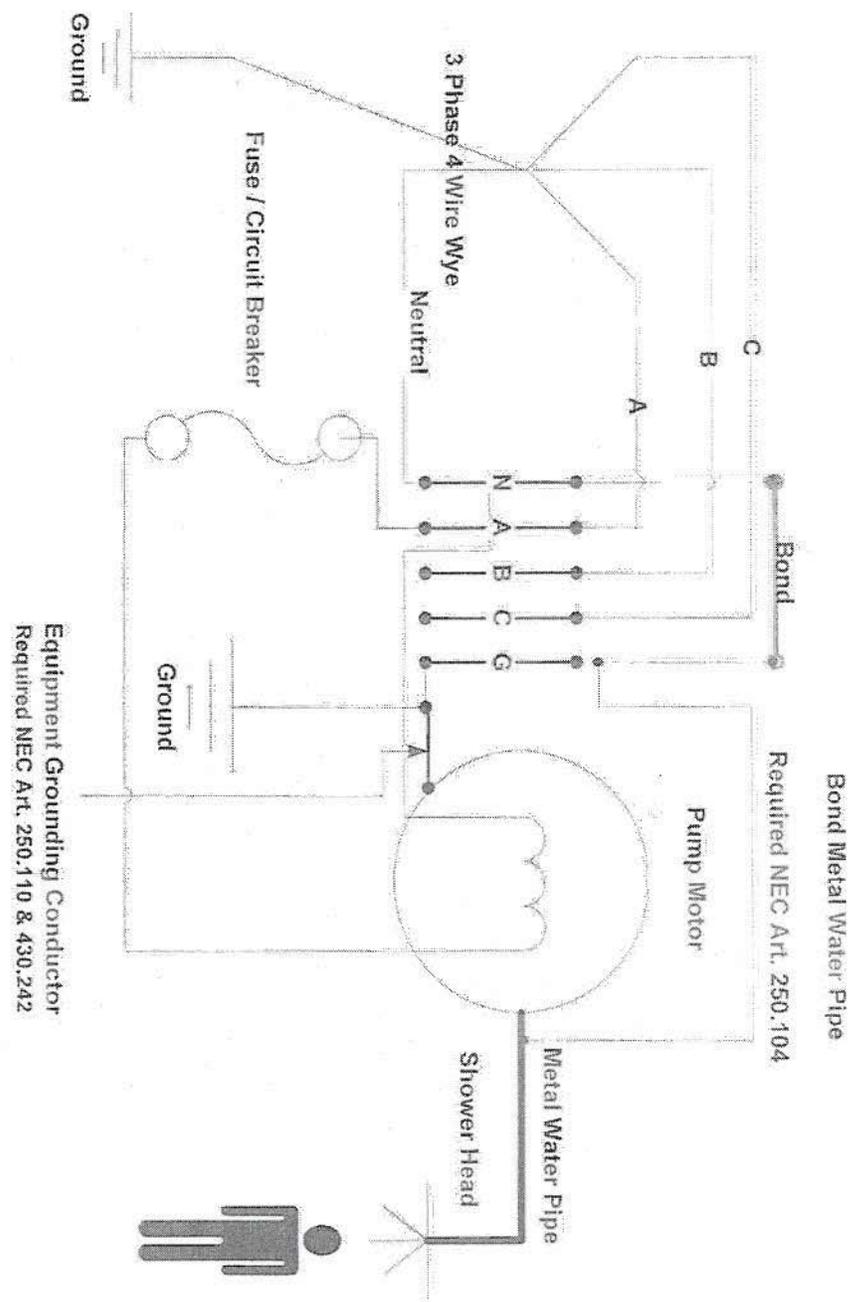
Missing Bonded Metal Water Pipe
Required NEC Art. 250.104

EXHIBIT 136

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~~LAW ENFORCEMENT SENSITIVE~~

- N: Neutral
- A: Phase 1
- B: Phase 2
- C: Phase 3
- G: Ground

Properly Grounded & Bonded System

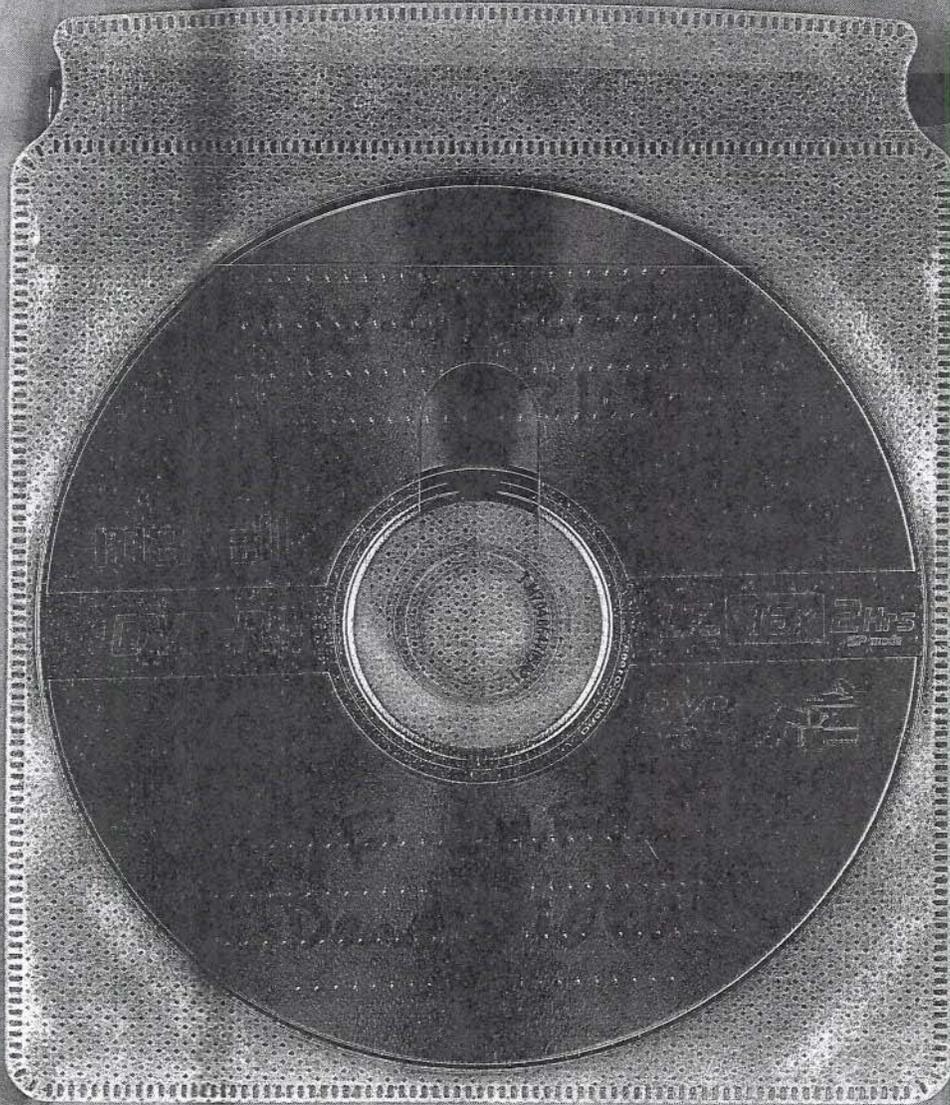


- N: Neutral
- A: Phase 1
- B: Phase 2
- C: Phase 3
- G: Ground

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EXHIBIT 136

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EXHIBIT 131