

ASME B30.5  
CRANES

MOBILE AND LOCOMOTIVE

Addition on page 9 between 'hoist mechanism' and 'jib' definition  
ASME B30.5b-1996

*insulating links feature* - a link which will insulate the rigger from a potentially lethal current during accidental contact between an energised power line and crane.

*insulating links warning feature* - a warning system to alert the operator of an impending insulating links failure condition.

**Addition on page 26 in section 5-1.9 'General requirements' ASME B30.5 - 1994**

**5-1.9.# Insulating Links Features**

(a) From (effective date to be inserted) all mobile cranes operating on a job site, which include 'Danger Zone(s)', [see Figs 17(a),(b) and (c)], shall be equipped with insulating links with insulating links warning feature(s).

(b) From (effective date to be inserted) all fixed cranes, which operate inside 'Danger Zone(s)', [see Figs 17(a),(b) and (c)], shall be equipped with insulating links with insulating links warning feature(s).

Addition on page 24 in section 22-1.8 'Construction'  
1998

ASME B30.22d-

**22-1.8.# Insulating Links Features**

From (effective date to be inserted) all cranes operating on a job site, which include 'Danger Zone(s)' ,[see Figs 17], shall be equipped with insulating links with insulating links warning feature(s).

Definitions:

*insulating links feature* - a (1) link which will (2) insulate the (3) rigger from a (4) potentially lethal current during accidental contact between an (5) energised (6) power line and (7) crane.

(1) **Link** - shall meet the structural requirements of ASME B30.9. Furthermore such Links must have been tested under conditions which simulate the expected lifting environment including both appropriate current and voltages together with any anticipated surface contamination.

Any current leakage detected during such tests should not exceed five milli-amps, (5 mA). In addition such Links must have the capacity to regularly self-check to warn of any adverse dielectric properties prior to and at any time during the lift.

(2) **insulate** - by the use of an "**insulator**" (as defined in NESC C2 1997 section 2 p.7) allow personnel to be "**insulated**" (as defined in NESC C2 1997 section 2 p.7)

(3) **rigger** - load handling personnel or persons involved in the rigging of lifting wires and devices at the time of lift.

(4) **potentially lethal current** - an electrical current above the threshold of "**ventricular fibrillation**" as defined in IEC 479-1 chapter 2 - 3.3 /4.3 and chapter 3 - 4.3.

(5) **energised** - as defined in NESC C2 1997 section 2 p.6.

(6) **power line** - "**electric power lines**" as referred to in ASME B30.5a 1995 - 5 - 3.4.5.1.

(7) **crane** - all cranes falling into B30.5 scope as defined in ASME B30.5 1994 - 5- 0.1 p.5.