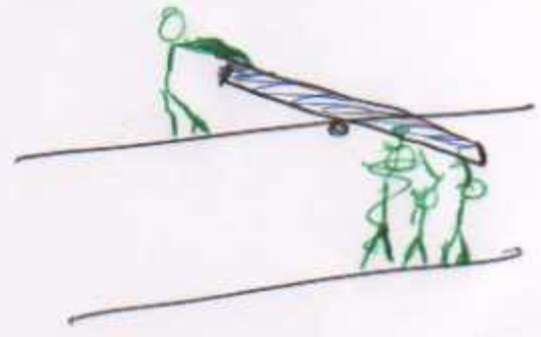


①

"No rope use or 'silo' claim reaser lifting gear will no cert.

⇒ very dangerous procedures for moving steel "handball down (scaffold) stairs" (not to be used!) hand-lowered through lifted scaffold beam spaces, with folk below underneath reaching up



"Rope Crisis"

Spoke

BS Fern - test houses will re-test & certify

Don Bellamy (said was optician) said Royal Navy gets rope w. cert. & fails that Navy no longer uses splices

risk analysis

Likelihood → [rope] - never really breaks - say 1 in 10000 working days

→ [no rope] - say 1 in 10 working days falls & trips, caught in impossible situation & muddles giving out, etc. see very likely!!

Consequence → [rope] - no-one is under load. Only consequence if "secondary effect" - a person in "recoiled" - say 1 in 100 rope breaks someone is seriously hurt ⇒ 1/100th consequence. 60 scenes "ambulance job" zero consequence

→ [no rope] - at least one person carrying the load is certain to be hurt. Others at risk. Say handballing a beam down a 6 storey - if beam free-falls out of stairway. Say 1/50 chance of someone being there and certainty of death = 1/50 say 1000 consequence

(2)

So "no rope" $\frac{100000}{10} = 10000$ times more likely

$\frac{1.0}{1/200} = 200$ times the consequence

$2 \times 10^2 \times 1 \times 10^3 = 2 \times 10^5$

= 200 thousand times the risk

say 100000 times the risk

"Rope crisis" could.

OK - a site operator wants to know that all ropes in use for lifting more than a trivial lift ~~weight~~
 ~~the~~ [mass & height ≤ 10 eg 10kg to 1m 100kg to 0.1m]
 (are known ("registered") and in proper condition.

Rope use "advisive" - much "friction braking" w. round turns.

orig. cert + retest weekly ~~is~~ certify eg tested to 1.5 tonne. Max static load = 150kg = (10:1 safety factor!)

Identity eg "side rope" 12mm ϕ 20m

visually inspect daily

identify & competent to recognise new damage - retest on any new damage or major uncontrolled bad.

2 rope lift safety factor of 5:1 or more.

failure of any one rope should not have serious consequences for multi-rope lift.

(3)

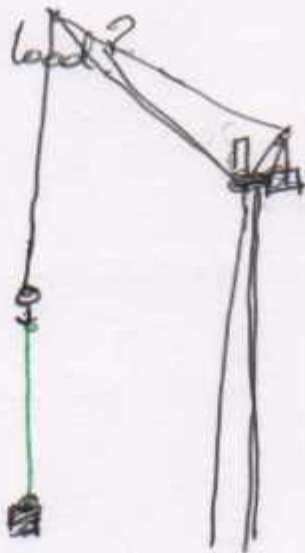
26.10.08

Can site lead contractors have test weights -
and use site tower crane.

round turn & 2 half-hitches at ends of ropes wound
crane hook & test load.

one lift?

2 lifts at same load?



Statement about splices?

sharp splice - say 8 tucks ^{at least} - synth rope and ~~same~~
 cage splice - at least 5 tucks ^{at least rope dia} free ends - "stubs".

Statement about visible rope condition.

With polypropylene "sub film" blue rope
how much colour fade - quantify?

Is there a std blue. Could you use the
wed familiar RGB hex notation to ^{define} colour?

Table of ~~known~~ knots which ca. rope user
is familiar w. - incl tying method.
eg sheet bend, dbl sheet bend, dove hitch in working end, dove hitch -
standing rope,

(4)

26.10.08

Idea w recording knots, splices, etc is
to ~~give~~ assert competence & give idea of class of
skills (different trades will know different knots).

↳ "challenge" that
can spot-check

ie don't later make any claim you'd
possible to formulate if there was no interest
in checking an assertion later held to be
unreliable.