

### Risk/Hazard Assessment Worksheet

Location:	General	May 1, 2008
Task/job:	Proposed change to Locomotive Safety Rules to remove the requirement for ditch lights. The need for ditch lights is now contained result of this change, ditch lights are no longer required on locomotives used in transfer service.	

Hazards	Existing Mitigation and Other Factors	Probability	Consequences	Initial Risk Level	Additional Controls	Residual Risk Level	Implementation Date
Increased risk of striking objects on track	15 mph limit for transfer movements will limit risk  Risk no greater than current ability to proceed pushing equipment	U	M	L	None required	L	Upon rule approval
Increased risk of crossing accident	15 mph limit for transfer movements will limit risk	U	M	L	None required	L	Upon rule approval
Loss of headlights	Full headlight failure is very infrequent  15 mph limit for transfer movements will limit risk  Further 10 mph restriction over crossings unless known to be clear	U	M	L	None required	L	Upon rule approval

Probability Level	Frequency of Occurrence	Description	Consequences Definition
<b>Frequent</b>	Occurs often, continuously experienced or >1/100: can happen immediately.	<b>Catastrophic (C)</b>	Multiple death or permanent disability, major property damage, not able to continue the operation.
<b>Likely</b>	Occurs several times to 1>1000: can happen in the medium term.	<b>Critical (Cr)</b>	Death, permanent disability, temporary total disability in excess of 3 months, major damages that significantly affect the operation.
<b>Occasional</b>	Occurs sporadically or >1/10,000 times: can happen in the long term.	<b>Marginal (M)</b>	Minor injury, lost workday accident, minor property damage and some degradation of the operation.
<b>Seldom</b>	Unlikely, but could occur at some time or >1/100,000: can happen in the long term.	<b>Negligible (N)</b>	First aid or minor medical treatment, minor or no impact to the operation.
<b>Unlikely</b>	Can assume it will not occur or >1/1,000,000: will practically never happen.		

Description	Frequent	Likely	Occasional	Seldom	Unlikely
<b>Catastrophic (C)</b>	E	E	H	H	M
<b>Critical (Cr)</b>	E	H	H	M	L
<b>Marginal (M)</b>	H	H	M	M	L
<b>Negligible (N)</b>	M	L	L	L	L

Risk Level	Action
E	Extremely High This level is unacceptable and requires immediate changes
H	High This level identifies potentially serious problems requiring changes
M	Moderate economically feasible.
L	Low functionality.

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<b>Person Responsible</b>
Individual railways
Individual railways
Individual railways