KNIGHT GLOBAL

RAIL INSPECTION CHECKLIST							DATE:
Work Cell Identification/Location:							
Rail-Type/Size:	Aluminum			2”	4”	6”	8”
What type of hangers?			How many hangers?				
Bridge?	Yes / No	Single / Dual	Notes:				
What type of load?	Direct	Cantilevered	Notes:				
Application:							Cycle Time:

Item to be Checked	Date Checked	Checked by	Notes/Discrepancies/Comments
GENERAL			
Ensure all safety devices e.g., safety wire, safety cables, clips, pins, lock-nuts, etc. are properly installed.			
Safety cables installed at all hanger locations per rail section, ¼ in (.25 mm) cable with four (4) clips per cable. Cable clip saddles must be on “live” cable.			
Check all rail splices. Bolts should only be tightened “snugly”; over-tightening may cause bolts to strip out of splice plate.			
Ensure that each rail splice bracket is installed on top of rail at splice area with safety bolt holes drilled and bolts installed.			
For all types of rail, ensure that hanger / splice guidelines are followed.			
Visually check all fasteners for indications of over-torquing, especially on hanger pivot points and any other points where movement is required.			
Ensure hanger clamp alignment is perpendicular to beam and that bolts are not over torqued.			
Verify that hanger span is within guidelines for system capacity rating.			
Where applicable, check floor support base mounting bolts for presence and tightness.			

Item to be Checked	Date Checked	Checked by	Notes/Discrepancies/Comments
Mid-Rail Stop			
Rubber Bumper – Wear not to exceed .250 in (6.35 mm); safety cable properly attached.			
End Caps (polyurethane)			
Wear not to exceed - 7510 & 6110 =.325 in (8.25 mm); 4110 & 2000 =.125 in (3.175 mm)			
Trolley Wheels			
For all types of rail, ensure that hanger / splice guidelines are followed.			
Load Eyes (Crane Eyes), Load Hooks			
Bent or distorted components; more than 5% wear in hook throat, wear greater than 5% of original diameter on bolts or pins, loose or damaged locking gates, any visible twisting of hook or eye.			
Hangers (Rod and Ball type)			
Wear resulting in ≥.125 in (3.175 mm) reduction of ball diameter; ≥.125 in (3.175 mm) increase in socket diameter or , ≥.125 in (3.175 mm) combined ball and socket wear.			
Hangers (Rigid/Semi-Rigid)			
Visible distortion, cracks; ≥ .250 in (6.35 mm) increase in bolt hole diameter(s).			
Rail			
Gouges on running surface; twisting of more than ≥.125 in (3.175 mm) bend in excess of ≥.125 in (3.175 mm) in any span of any plane.			
Installation			
Straightness-Must be straight within ¼ in (6.4 mm) in any span length.			
Splice Gap-Must not exceed 1/16 in (1.6 mm) at load carrying flange.			
Runway Elevation-Should not vary ± ¼ in (6.4 mm) in any span length.			
Runway Parallelism-Must not exceed ± 3/16 in (4.8 mm).			