(Appendix C of the FRA Guide for Preparing Accident/Incident Reports)

		Brakes	
Code	Causes	Code	Causes
E00C	Air hose uncoupled or burst	E06C	Brake valve malfunction (stuck brake, etc.)
E00L	Air hose uncoupled or burst (LOCOMOTIVE)	E06L	Brake valve malfunction (stuck brake, etc.) (LOCOMOTIVE)
E01C	Hydraulic hose uncoupled or burst	E07C	Rigging down or dragging
E01L	Hydraulic hose uncoupled or burst (LOCOMOTIVE)	E07L	Rigging down or dragging (LOCOMOTIVE)
E02C	Broken brake pipe or connections	E08C	Hand brake (including gear) broken or defective
E02L	Broken brake pipe or connections (LOCOMOTIVE)	E08L	Hand brake (including gear) broken or defective (LOCOMOTIVE)
E03C	Obstructed brake pipe (closed angle cock, ice, etc.)	E09C	Other brake defects, cars (Provide detailed description in narrative)
E03L	Obstructed brake pipe (closed angle cock, ice, etc.) (LOCOMOTIVE)	E09L	Other brake defects, (Provide detailed description in narrative) (LOCOMOTIVE)
E04C	Other brake components damaged, worn, broken, or disconnected	E0HC	Hand brake linkage and/or connections broken or defective
E04L	Other brake components damaged, worn, broken, or disconnected (LOCOMOTIVE)	E0HL	Hand brake linkage/Connections broken/defective (LOCOMOTIVE)
E05C	Brake valve malfunction (undesired emergency)	E10L	Computer controlled brake communication failure (LOCOMOTIVE)
E05L	Brake valve malfunction (undesired emergency) (LOCOMOTIVE)		

	Trailer Or Container On Flatcar			
Code	Causes	Code	Causes	
E11C	Broken or defective tie down equipment	E13C	Broken or defective trailer	
E12C	Broken or defective container	E19C	Other trailer or container on flat car defects (Provide detailed description in narrative)	

(Appendix C of the FRA Guide for Preparing Accident/Incident Reports)

		Body	
Code	Causes	Code	Causes
E20C	Body bolster broken or defective	E24L	Center plate disengaged from truck unit/off center (LOCOMOTIVE)
E20L	Body bolster broken or defective (LOCOMOTIVE)	E25C	Center pin broken or missing
E21C	Center sill broken or bent	E25L	Center pin broken or missing (LOCOMOTIVE)
E21L	Center sill broken or bent (LOCOMOTIVE)	E26C	Center plate attachment defective
E22C	Draft sill broken or bent	E26L	Center plate attachment defective (LOCOMOTIVE)
E22L	Draft sill broken or bent (LOCOMOTIVE)	E27C	Side sill broken
E23C	Center plate broken or defective	E27L	Side sill broken (LOCOMOTIVE)
E23L	Center plate broken or defective (LOCOMOTIVE)	E29C	Other body defects, (CAR) (Provide detailed description in narrative)
E24C	Center plate disengaged from truck (car off center)	E29L	Other body defects, (LOCOMOTIVE) (Provide detailed description in narrative)

Coupler and Draft System				
Code	Causes	Code	Causes	
E30C	Knuckle broken or defective	E34L	Draft gear/mechanism broken/defective (including yoke) (LOCOMOTIVE)	
E30L	Knuckle broken or defective	E35C	Coupler carrier broken or defective	
E31C	Coupler mismatch, high/low	E35L	Coupler carrier broken or defective (LOCOMOTIVE)	
E31L	Coupler mismatch, high/low (LOCOMOTIVE)	E36C	Coupler shank broken or defective (includes defective alignment control)	
E32C	Couple draw head broken or defective	E36L	Coupler shank broken or defective (includes defective includes defective alignment control) (LOCOMOTIVE)	
E32L	Couple draw head broken or defective (locomotive)	E37C	Failure of articulated connectors	
E33C	Coupler retainer pin/cross key missing	E37L	Failure of articulated connectors (LOCOMOTIVE)	
E33L	Coupler retainer pin/cross key missing (LOCOMOTIVE)	E39C	Other coupler and draft system defects, (CAR) (Provide detailed description in narrative)	
E34C	Draft gear/mechanism broken or defective (including yoke)	E39L	Other coupler and draft system defects, (LOCOMOTIVE) (Provide detailed description in narrative)	

(Appendix C of the FRA Guide for Preparing Accident/Incident Reports)

	Truck Components			
Code	Causes	Code	Causes	
E40C	Side bearing clearance insufficient	E46C	Truck bolster stiff, improper swiveling	
E40L	Side bearing clearance insufficient (LOCOMOTIVE)	E46L	Truck bolster stiff, improper lateral or improper swiveling(LOCOMOTIVE)	
E41C	Side bearing clearance excessive	E47C	Defective snubbing (including friction and hydraulic)	
E41L	Side bearing clearance excessive (LOCOMOTIVE)	E47L	Defective snubbing (LOCOMOTIVE)	
E42C	Side bearing(s) broken	E48C	Broken, missing, or otherwise defective springs (including incorrect repair and/or installation)	
E42L	Side bearing(s) broken (LOCOMOTIVE)	E48L	Broken, missing, or otherwise defective springs (LOCOMOTIVE)	
E43C	Side bearing(s) missing	E49C	Other truck component defects, including mismatched side frames (CAR) (Provide detailed description in narrative)	
E43L	Side bearing(s) missing (LOCOMOTIVE)	E49L	Other truck component defects, (LOCOMOTIVE) (Provide detailed description in narrative)	
E44C	Truck bolster broken	E4AC	Gib Clearance (lateral motion excessive)	
E44L	Truck bolster broken (LOCOMOTIVE)	E4BC	Truck bolster stiff (failure to slew)	
E45C	Side frame broken	E4TC	Truck hunting	
E45L	Side frame broken (LOCOMOTIVE)	E4TL	Truck hunting (LOCOMOTIVE)	

	Axles and Journal Bearings				
Code	Causes	Code	Causes		
E51C	Broken or bent axle between wheel seats	E54C	Journal fractured, new cold break		
E51L	Broken or bent axle between wheel seats (LOCOMOTIVE)	E54L	Journal fractured, new cold break (LOCOMOTIVE)		
E52C	Journal (plain) failure from overheating	E55C	Journal fractured, cold break, previously overheated		
E52L	Journal (plain) failure from overheating (LOCOMOTIVE)	E55L	Journal fractured, cold break, previously overheated (LOCOMOTIVE)		
E53C	Journal (roller bearing) failure from overheating	E59C	Other axle and journal bearing defects (CAR) (Provide detailed description in narrative)		
E53L	Journal (roller bearing) failure from overheating- LOCOMOTIVE	E59L	Other axle and journal bearing defects (LOCOMOTIVE) (Provide detailed description in narrative)		

(Appendix C of the FRA Guide for Preparing Accident/Incident Reports)

		Wheels	
Code	Causes	Code	Causes
E60C	Broken flange	E65L	Worn tread (LOCOMOTIVE)
E60L	Broken flange (LOCOMOTIVE)	E66C	Damaged flange or tread (flat)
E61C	Broken rim	E66L	Damaged flange or tread (flat) (LOCOMOTIVE)
E61L	Broken rim (LOCOMOTIVE)	E67C	Damaged flange or tread (build up)
E62C	Broken plate	E67L	Damaged flange or tread (build up) (LOCOMOTIVE)
E62L	Broken plate (LOCOMOTIVE)	E68C	Loose wheel
E63C	Broken hub	E68L	Loose wheel (LOCOMOTIVE)
E63L	Broken hub (LOCOMOTIVE)	E69C	Other wheel defects (CAR) (Provide detailed description in narrative)
E64C	Worn flange	E69L	Other wheel defects (LOCOMOTIVE) (Provide detailed description in narrative)
E64L	Worn flange (LOCOMOTIVE)	E6AC	Thermal crack, flange or tread
E65C	Worn tread	E6AL	Thermal crack, flange or tread (LOCOMOTIVE)

Locomotives				
Code	Causes	Code	Causes	
E70L	Running gear failure (LOCOMOTIVE)	E76L	Remote control equipment inoperative (LOCOMOTIVE)	
E71L	Traction motor failure (LOCOMOTIVE)	E77L	Broken or defective swing hanger or spring plank (LOCOMOTIVE)	
E72L	Crank case or air box explosion (LOCOMOTIVE)	E78L	Pantograph defect (LOCOMOTIVE)	
E73L	Oil or fuel fire (LOCOMOTIVE)	E79L	Other locomotive defects (Provide detail description in narrative)	
E74L	Electrically caused fire (LOCOMOTIVE)	E7AL	On-board computer - failure to respond (LOCOMOTIVE)	
E75L	Current collector system (LOCOMOTIVE)	E7BL	Third rail shoe or shoe beam (LOCOMOTIVE)	

(Appendix C of the FRA Guide for Preparing Accident/Incident Reports)

	Doors				
Code	Causes	Code	Causes		
E80C	Box car plug door open	E84C	Box car door, other than plug, attachment defective		
E81C	Box car plug door, attachment defective	E85C	Bottom outlet car door open		
E82C	Box car plug door, locking lever not in place	E86C	Bottom outlet car door attachment defective		
E83C	Box car door, other than plug, open	E89C	Other car door defects (Provide detail description in narrative)		

	General Mechanical Electrical Failures			
Code	Causes	Code	Causes	
E99C	Other mechanical and electrical failures, (CAR) (Provide detailed description in narrative)	E99L	Other mechanical and electrical failures, (LOCOMOTIVE) (Provide detailed description in narrative)	