

Train Accidents Cause Codes

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

MECHANICAL AND ELECTRICAL FAILURES

Select one of these codes and enter in Form F6180.54, 38 & 39. Causes
Alphabetic Listing

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

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

Train Accidents Cause Codes

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

MECHANICAL AND ELECTRICAL FAILURES

Select one of these codes and enter in Form F6180.54, 38 & 39. Causes
Alphabetic Listing

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

Train Accidents Cause Codes

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

MECHANICAL AND ELECTRICAL FAILURES

Select one of these codes and enter in Form F6180.54, 38 & 39. Causes
Alphabetic Listing

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

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

Train Accidents Cause Codes

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

MECHANICAL AND ELECTRICAL FAILURES

Select one of these codes and enter in Form F6180.54, 38 & 39. Causes
Alphabetic Listing

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

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

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

Train Accidents Cause Codes

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

MECHANICAL AND ELECTRICAL FAILURES

Select one of these codes and enter in Form F6180.54, 38 & 39. Causes
Alphabetic Listing

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

Train Accidents Cause Codes

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

MECHANICAL AND ELECTRICAL FAILURES

Select one of these codes and enter in Form F6180.54, 38 & 39. Causes
Alphabetic Listing

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