

Direct Cause Category	Direct Cause Code	Full Description from Business Requirements	Direct Outage Cause Codes
Environment	Contamination	Contamination or Airborne Deposit (i.e. salt, trona ash, other chemical dust, sawdust, etc.)	
	Condensation / Moisture	Corrosive Environment	
	Flooding	Flooding due to rivers, broken water main etc	
	Fire/Smoke (not due to faults)	Fire/Smoke relating to forest, brush, buildings (do not include fires due to faults or lightning).	
Weather	Wind	Wind (excluding windborne material)	
	Snow, Sleet and Blizzard	Snow, Sleet and Blizzard	
	Ice	Ice	
	Freezing Fog & Frost	Freezing Fog & Frost	
	Lightning	Lightning	
Equipment Failure	Deterioration or Rotting	Structural deterioration due to age (incl. pole rot)	
	Overload	Electrical load above limits	
	B/O Equipment	Failure due for no apparent reason, but <b>not due</b> to overload or deterioration	
	Pole Fire	Conditions resulting in a pole/cross arm fire due to the decline of insulation qualities	
	Nearby Fault	Equipment affected by fault on nearby equip. (i.e. broken conductor hits another line)	
Interference	Vandalism or Theft	Willful damage, interference or theft; such as gun shots, rock throwing, etc.)	
	Dig-in (Non-PacifiCorp Personnel)	Customer, contractor, other utility dig-in.	
	Other Utility/Contractor	Contact by outside utility, contractor, or other 3rd party individual, <b>including customer caused</b>	
	Vehicle Accident	Vehicle accident; including car, truck, tractor, motorbike, construction equipment, aircraft, manned balloon, etc.	
	Other Interfering Object	Other interfering object, such as: straw, shoes, string, metal roof, mylar balloon, or other material	
Animals and Birds	Bird Nest (BMTS)	Any problem nest. Any active/inactive problem nest that requires removal, relocation, trimming, etc. *requires entry into BMTS by field	
	Bird Mortality (Protected species) (BMTS)	Any birds protected by laws * requires entry into BMTS by field. (ex: hawks, owls, waterfowl, eagles, pelicans, crows, ravens, magpies, woodpeckers, jays, blackbirds, gulls, cranes.)	
	Bird Mortality (Non-protected species)	Birds not protected by laws, pet birds, (ex. Sparrow, starling, pigeon)	
	Bird Suspected, No Mortality	No bird carcass found. Suspected line strikes, flocking, excrement, etc.	
	Animals	All animals, other than birds, may include electrocution of animal or animal damage. Both domestic and wild animals are included (ex: includes squirrels, cats, farm animals, raccoons, rodents, insects, etc.)	
Operational	PacifiCorp Employee - Field	Outages caused by actions of PacifiCorp (including live-line work) field operation employees. (e.g. Lineman, Serviceman, etc.)	
	PacifiCorp Employee - Sub	Outages caused by actions of PacifiCorp (including live-line work) substation employees. (e.g. Meter & Relays, Station Wireman, Com Tech., etc.)	
	PacifiCorp Employee - Dispatch	Outages caused by actions of PacifiCorp Dispatching department; relating to erroneous information, switching, tags, (e.g. Dispatchers)	
	Internal Contractor	Outages caused by actions of Line Contractors hired by PacifiCorp while doing line work.	
	Internal Tree Contractor	Outages caused by actions of Vegetation Contractors hired by PacifiCorp.	
	Switching Error	Switching Error	
	Testing/Startup Error	Testing or Commissioning error	
	Improper Protective Coordination	Relay setting error, wrong fuse size, equipment by-passed, left on Non-reclose, etc.	
	Incorrect Records	Incorrect/Inadequate circuit records or identification	
	Faulty Install	Faulty installation or construction, inappropriate use of equipment, design error, etc.	
	Unsafe Situation	Operational or Safety restriction	
Loss of Supply	Loss of Generator	Failure of supply from Generator	
	Loss of Transmission Line	Failure of supply from Transmission system.	
	Loss of Feed from Supplier	Distribution or transmission feed comes from another utility (i.e., BPA, WAPA, REA, etc.)	
	Loss of Substation	Failure of distribution substation equipment, (i.e. transformer, capacitor, regulator, bushing, fuses, etc.)	
Planned	Transmission Requested	Transmission requested, affects distribution sub and distribution circuits	
	Emergency Damage Repair	Company expands or takes outage to make repairs after storm damage, car hit pole, etc.	
	Construction	Construction Work by PacifiCorp where a Customer Notice <b>was not</b> given.	
	Customer Requested	Non-scheduled Customer Requested outage to repair or replace own equipment, etc.	
	Energy Emergency Interruption	<b>To be used for Rolling Blackouts only!!!!</b>	
	Intentional to Clear Trouble	Remove a crane boom, balloon, tree, etc.	
	Customer Notice Given	Customer notified of outage as required by Customer Guarantees. (i.e. CG #7)	
Trees	Tree - Trimmable	Growing or falling trees (preventable by following company tree trimming policies)	
	Tree - Non-preventable	Falling Trees (non-preventable, outside of company tree trimming policies))	
Other	Unknown	Cause Unknown, use comments field if there are some possible reasons	
	Other, Known Cause	Cause Unclassified in this table. Complete explanation required in comments field!	