

Generation Plant Additions Since Prior Case				
FERC Function	Funding Project	Funding Project Description	Sum of Activity Cost	Description & Justification
Hydro Generation Plant	PO0001	Hydro Plant Additions	2,384,348	Rewind Unit 8 generator stator at Ozark Beach Dam. Stator failed in service; was original stator that was installed in 1931. Also includes costs for the Hydro-Dam FERC Relicensing
Hydro Generation Plant	PO0010	Improvements to the Dam	1,229,767	Work done at Ozark Beach as a result of the FERC relicensing studies and recommendations from those studies.
Hydro Generation Plant	PO0012	Improvements to Powerhouse	5,084,563	Install and replace headgates and install crane extension downstream.
Other Generation Plant	000000	Electrical Improvements	1,986,162	Electrical Improvements to Asbury Renewable Operations Center ("AROC") and out buildings
Other Generation Plant	EKP001	Kings Point - Empire	2,261,312	The Kings Point Wind Project has a nameplate capacity of 149.4 megawatts ("MW") and interconnects at Liberty-Empire's La Russell Energy Center. The Kings Point Wind Project consists of 69 wind turbine generators and the infrastructure necessary for these generators to operate as an integrated energy production facility delivering energy to the transmission system.
Other Generation Plant	ENF001	North Fork - Empire	3,750,163	The North Fork Ridge Wind Project has a nameplate capacity of 149.4 megawatts ("MW") and interconnects at Liberty-Empire's substation at Asbury. The North Fork Ridge Wind Project consists of 69 wind turbine generators and the infrastructure necessary for these generators to operate as an integrated energy production facility delivering energy to the transmission system.
Other Generation Plant	PCC001	Misc Prod Plant Additions	1,200,747	\$5.9 million invested in tools, mobile equipment, grounds and structures at the State Line Combined Cycle Plant. Major items include \$1.4 million for a new administrative office building, approximately \$550,000 for roads and drainage improvements, approximately \$470,000 for physical security improvements, and \$423,000 for a water treatment structure.
Other Generation Plant	PCC006	TURBINE UPGRADES	14,221,961	Included upgrades to the State Line Combined Cycle's combustion turbines 2-1 and 2-2. The upgrades were implemented at the end of each turbine's major inspection interval. The centerpiece of these upgrades is a new combustion turbine rotor, which promises to increase the maximum capacity of the units while improving fuel efficiency.
Other Generation Plant	PR0001	Production Plant Additions	2,391,752	Includes new storage building and various improvements to grounds and structures
Other Generation Plant	PR0007	Turbine Gen & Aux Equip Add	5,427,395	Approximately \$2 million for purchase of a spare generator step-up transformer; other items include replacement of unit 10 and 11 lube oil coolers and various gas turbine instruments
Other Generation Plant	PR0009	Lowell & Bypass Replacements	1,387,355	Includes improvements to the cooling water discharge flume, Lowell Dam, and the dam bypass spillway
Other Generation Plant	PR0012	Pump Additions	1,433,892	Approximately \$1 million for installation of a new well. Also includes a new condensate transfer pump, a sodium bisulfate water treatment system, and upgrades to well pump controls.
Other Generation Plant	PR0014	Insulation Improvements	1,091,733	Instillation of single layer insulation on steam turbine and combustion turbine
Other Generation Plant	PS0006	Add'l CT upgrades	16,635,397	Work done at the State Line 1 Hot Gas Path inspection that revealed cracks in a rotor discs and led to the replacement of the entire rotor based on an evaluation of options and timelines available to Liberty.
Steam Generation Plant	PI0001	Iatan Plant	4,257,031	Includes the following: Transformer replacements, instillation of cooling water filtration, replacement of air preheater coils, replacement of boiler waterwall tubes, installation of a low-pressure turbine rotor, installation of circuit breakers, installation of an induced draft fan rotor, replacements of selective catalytic reduction (SCR) catalyst, installation of baghouse bags, replacement of hot reheat piping, replacement of the primary superheater, and upgrade of the distributed control system (DCS) and simulator, overhaul of a coal pulverizer, replacement of sootblowers and attemperators, and multiple other various improvements and additions.
Steam Generation Plant	PIC001	Iatan Common Facilities	2,228,534	related to comply with environmental regulations. Addition/expansion of Iatan plant ash landfill cells. The ash landfill has taken the place of the plant ash ponds due to new environmental regulations.
Steam Generation Plant	PII001	Iatan 2	1,585,782	Includes the following: Engineering study for feasibility of zero liquid discharge system for Iatan Plant-- part of required environmental controls upgrades, engineering study for feasibility of replacement of superheater tubes for Iatan 2, engineering study for clarifier for Iatan Unit 2. Unit 2 operates with a cooling tower instead of pulling directly from the Missouri River; it is a closed loop system so requires clarification of makeup water from the river. Fund project also includes Iatan Unit 2 Engineerty Study for AQCS upgrades, the replacement of secondary superheater tube inner bends on Iatan Unit 2 boiler, replacement of the turbine control system for Iatan Unit 2 turbine, and for the engineering study for installation of enclosure on the upper Iatan Unit 2 boiler.
Steam Generation Plant	PP0001	Plum Point Misc Prod Pit Add	1,099,646	Approximately \$290,000 for a new landfill cell; \$256,000 for construction of onsite railcar storage; \$188,000 to replace #5 high pressure feedwater heater; \$181,000 to replace baghouse bags and cages; \$175,000 for construction of a landfill leachate storage pond; \$170,000 to replace cold end air heater baskets; various other capital improvements and replacements.
Steam Generation Plant	AS00706 - IAT2 Burner Tips Replacement	AS00706 - IAT2 Burner Tips Replacement	1,045,567	Work done at the Iatan 1 outage to upgrade one of the pulverizers
Steam Generation Plant	AG00398 - IAT1 1F Pulverizer Major Overhaul	AG00398 - IAT1 1F Pulverizer Major Overhaul	1,055,017	Work done at the Iatan 1 outage to upgrade part of the burner section
			71,758,125	