

Big Boy No. 4014



Union Pacific Railroad is undertaking the movement and restoration of one of the world's largest steam locomotives – the Big Boy No. 4014.

Twenty-five Big Boys were built exclusively for Union Pacific Railroad, the first of which was delivered in 1941. The locomotives were 132 feet long and weighed 1.2 million pounds. Because of their great length, the frames of the Big Boys were “hinged,” or articulated, to allow them to negotiate curves. They had a 4-8-8-4 wheel arrangement, which meant they had four wheels on the leading set of “pilot” wheels which guided the engine, eight drivers, another set of eight drivers, and four wheels following which supported the rear of the locomotive. The massive engines normally operated between Ogden, Utah, and Cheyenne, Wyo.

Eight of the Big Boys were donated for public display in various cities around the country. They can be found in Pomona, Calif.; St. Louis, Mo.; Dallas, Texas; Omaha, Neb.; Denver, Colo.; Scranton, Penn.; Green Bay, Wis.; and Cheyenne, Wyo.

Big Boy No. 4014 was delivered to Union Pacific in December 1941. The locomotive was retired in December 1961, having traveled 1,031,205 miles in its 20 years in service.

No. 4014 will be moved from its display location in Pomona, Calif., to Cheyenne, Wyo., where it will undergo restoration that is anticipated to take a minimum of five years.

UNION PACIFIC LOCOMOTIVE NO. 4014 SPECIFICATIONS

DRIVING WHEEL DIAMETER		CYLINDER		WHEEL BASE		WEIGHT IN WORKING ORDER (LBS.)		EVAPORATING SURFACES (SQ. FT.)	
68"		DIAMETER	23 3/4"	DRIVING	18' 3" x 2	LEADING	97,000	TUBES	967
TUBES		STROKE	32"	ENGINE	72' 5 1/2"	DRIVING	540,000	FLUES	4,218
NUMBER	DIAMETER	BOILER		ENGINE-TENDER	132' 9 7/8"	TRAILING	125,000	FIREBOX	593
75	2 1/4"	OUTSIDE DIAMETER 106 9/16"		SUPERHEATING SURFACE (SQ. FT.)		ENGINE	762,000	CIRCULATORS	111
184	4"			2,466		TENDER (LOADED)	427,500	TOTAL	5,889
LENGTH	22'	PRESSURE	300 LBS.	MAXIMUM TRACTIVE POWER		FIREBOX		FACTOR OF ADHESION	
ENGINE AND TENDER 132' 9 7/8"		WATER CAPACITY		135,375 LBS.		LENGTH	235 1/32"	4.00	
GAUGE OF TRACK		GRATE AREA		FUEL (COAL) Current configuration. Plans call for a conversion to No. 5 Oil.		WIDTH	96 3/16"	WEIGHT	
				56,000 LBS.		TENDER TYPE		ENGINE AND TENDER 1.2 MILLION LBS.	
4' 8 1/2"		150		14-WHEELED					