Q. **Reference: NP-NLH-009**

Please provide the detailed results of the 50-year least cost evaluation for each identified alternative showing for each year the capital and operating costs associated with each alternative.

A. Table 1 outlines the Cumulative Present Worth by Year for each alternative considered.

Table 1: Cumulative Present Worth by Year

Year	Purchase New Transformer	Voltage Conversion	Re-Tank Existing T1
2029	1,906,227.23	2,738,554.29	1,746,255.70
2030	1,906,227.23	2,735,450.74	1,746,255.70
2031	1,922,026.20	2,732,544.36	1,762,054.67
2032	1,922,026.20	2,729,675.20	1,762,054.67
2033	1,922,026.20	2,726,837.68	1,762,054.67
2034	1,929,245.44	2,724,023.83	1,769,273.91
2035	1,937,652.36	2,742,249.99	1,777,680.83
2036	1,937,652.36	2,739,535.62	1,777,680.83
2037	1,950,847.52	2,736,808.41	1,790,875.98
2038	1,950,847.52	2,734,095.81	1,790,875.98
2039	1,950,847.52	2,731,427.27	1,790,875.98
2040	2,251,224.71	2,728,649.98	2,091,253.18
2041	2,258,246.10	2,743,490.65	2,098,274.56
2042	2,258,246.10	2,740,862.47	2,098,274.56
2043	2,269,266.56	2,738,299.82	2,109,295.03
2044	2,269,266.56	2,735,771.33	3,040,569.73
2045	2,527,292.14	2,733,240.61	3,298,595.30
2046	2,532,327.87	2,730,743.11	3,303,631.04
2047	2,538,192.06	2,742,939.11	3,303,631.04
2048	2,538,192.06	2,740,506.94	3,303,631.04
2049	2,538,192.06	2,738,106.93	3,303,631.04
2050	2,538,192.06	2,735,738.43	3,308,990.25
2051	2,546,859.97	2,733,401.27	3,317,658.15
2052	2,551,065.77	2,731,094.88	3,321,863.95
2053	2,555,963.49	2,741,062.99	3,321,863.95
2054	2,555,963.49	2,738,816.87	3,321,863.95
2055	2,555,963.49	2,736,600.29	3,321,863.95
2056	2,555,963.49	2,734,412.77	3,326,339.92

Year	Purchase New Transformer	Voltage Conversion	Re-Tank Existing T1
2057	2,563,202.84	2,732,254.20	3,333,579.27
2058	2,566,715.48	2,730,123.75	3,337,091.91
2059	2,570,806.01	2,903,436.33	3,337,091.91
2060	2,570,806.01	2,901,361.54	3,337,091.91
2061	2,570,806.01	2,899,314.27	3,337,091.91
2062	2,570,806.01	2,897,293.83	3,337,091.91
2063	2,576,852.25	2,895,300.13	3,343,138.15
2064	2,579,785.97	3,038,158.61	3,346,071.88
2065	2,583,202.35	3,039,063.73	3,346,071.88
2066	2,583,202.35	3,037,147.57	3,346,071.88
2067	2,583,202.35	3,035,256.53	3,346,071.88
2068	2,583,202.35	3,033,390.55	3,349,194.06
2069	2,588,252.11	3,031,549.09	3,354,243.82
2070	2,711,384.12	3,034,632.30	3,477,375.83
2071	2,714,237.44	3,035,216.58	3,477,375.83
2072	2,714,237.44	3,033,446.80	3,477,375.83
2073	2,714,237.44	3,031,700.26	3,477,375.83
2074	2,714,237.44	3,029,976.73	3,479,983.44
2075	2,611,714.39	2,942,940.91	3,330,772.15
Total	**112,746,934.07**	**132,876,505.36**	**134,837,330.79**