

JSG EXHIBITS

Calculation of Depreciation Rates and Accruals for Water Plant
Snaveley King Majoros & Assoc.

DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF DECEMBER 31, 2016 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED ANNUAL		COMPOSITE REMAINING LIFE (8)	NORMALIZATION		TOTAL		
					ACCRUAL AMOUNT (6)	ACCRUAL RATE (7)		ACCRUAL AMOUNT (9)	ACCRUAL RATE (10)=(9)/(3)	ACCRUAL AMOUNT (11)=(6)+(9)	ACCRUAL RATE (12)=(11)/(3)	
INTANGIBLE PLANT												
301.00	ORGANIZATION	NONDEPR.	632,676.74	239								
302.00	FRANCHISES AND CONSENTS	NONDEPR.	186,512.25									
TOTAL INTANGIBLE PLANT			819,188.99	239								
NONDEPRECIABLE PLANT												
LAND AND LAND RIGHTS												
303.20	SUPPLY	NONDEPR.	9,181,263.41	132								
303.30	PUMPING	NONDEPR.	1,104,337.93	23								
303.40	TREATMENT	NONDEPR.	6,856,564.73	(39,107)								
303.50	TRANSMISSION AND DISTRIBUTION	NONDEPR.	17,052,835.52	(84,293)								
303.60	GENERAL	NONDEPR.	1,013,407.41									
TOTAL NONDEPRECIABLE PLANT			35,208,409.00	(123,245)								
DEPRECIABLE PLANT												
STRUCTURES AND IMPROVEMENTS												
304.10	SOURCE OF SUPPLY STRUCTURES	60-R2	37,232,875.91	5,798,971	31,433,905	602,770	1.62	52.1	163,853	0.44	766,623	2.06
PUMPING STRUCTURES												
304.20	DELAWARE RIVER REGIONAL	75-S1 *	11,815,936.61	5,004,429	6,811,508	177,199	1.50	38.4				
	SWIMMING RIVER	75-S1 *	135,152.13	104,604	30,548	1,883	1.39	16.2				
	CANOE BROOK	75-S1 *	4,214,778.57	1,137,049	3,077,730	65,242	1.55	47.2				
	CANAL ROAD	75-S1 *	4,859,056.57	1,994,691	2,864,366	74,106	1.53	38.7				
	RARITAN MILLSTONE	75-S1 *	19,756,193.85	10,292,707	9,463,487	384,856	1.95	24.6				
	OTHER	60-R2	38,432,177.05	11,849,855	26,582,322	568,366	1.48	46.8				
TOTAL PUMPING			79,213,294.78	30,383,335	48,829,961	1,271,652	1.61	38.4	113,918	0.14	1,385,570	1.75
TREATMENT STRUCTURES												
304.30	DELAWARE RIVER REGIONAL	75-S1 *	24,842,685.95	9,486,299	15,356,387	399,850	1.61	38.4				
	SWIMMING RIVER	75-S1 *	12,361,825.12	8,045,791	4,316,034	264,548	2.14	16.3				
	JUMPING BROOK	75-S1 *	3,380,159.83	535,300	2,844,860	80,867	2.39	35.2				
	CANOE BROOK	75-S1 *	73,920,572.32	7,231,984	66,688,588	1,335,586	1.81	49.9				
	CANAL ROAD	75-S1 *	40,159,107.48	13,996,913	26,162,194	671,308	1.67	39.0				
	RARITAN MILLSTONE	75-S1 *	50,402,086.03	20,528,742	29,873,344	1,206,516	2.39	24.8				
	OTHER	60-R2	88,080,189.28	17,724,185	70,356,004	1,406,805	1.60	50.0				
TOTAL TREATMENT			293,146,626.01	77,549,214	215,597,411	5,365,480	1.83	40.2	173,425	0.06	5,538,905	1.89
TRANSMISSION AND DISTRIBUTION												
304.40	GENERAL	50-R1.5	12,186,083.50	4,080,533	8,105,550	184,001	1.51	44.1	176,915	1.45	360,916	2.96
304.50	OFFICE BUILDINGS	35-R1.5	44,974,527.94	6,303,517	38,671,011	1,500,849	3.34	25.8	57,594	0.13	1,558,443	3.47
304.60	STORES, SHOP AND GARAGE BUILDINGS	50-R1	17,677,550.96	8,732,669	8,944,882	221,499	1.25	40.4	17,697	0.10	239,196	1.35
304.70	MISCELLANEOUS	50-R2.5	9,869,693.15	3,908,272	5,961,421	209,571	2.12	28.4	757	0.01	210,328	2.13
304.80		40-S1.5	5,514,602.22	5,369,405	145,197	4,892	0.09	29.7	(2)	-	4,890	0.09
TOTAL STRUCTURES AND IMPROVEMENTS			499,815,254.47	142,125,916	357,689,338	9,360,714	1.87	38.2	835,827	0.17	10,064,871	2.01
COLLECTING AND IMPOUNDING RESERVOIRS												
305.00	LAKE, RIVER AND OTHER INTAKES	90-R3	23,574,424.53	12,932	23,561,492	440,272	1.87	53.5	65,845	0.28	506,117	2.15
306.00	WELLS AND SPRINGS	55-R3	10,148,027.00	1,751,235	8,396,792	246,952	2.43	34.0	95	-	247,047	2.43
307.00	INFILTRATION GALLERIES AND TUNNELS	59-L0	48,923,980.68	19,648,644	29,275,337	585,976	1.20	50.0	315,948	0.65	901,924	1.84
308.00	SUPPLY MAINS	70-R2.5	9,745,366.92	4,013,120	5,732,247	111,151	1.14	51.6	0	-	111,151	1.14
309.00	POWER GENERATION EQUIPMENT	100-L1.5	32,099,411.17	6,397,023	25,702,388	301,318	0.94	85.3	94,957	0.30	396,275	1.23
310.00	OTHER POWER GENERATION EQUIPMENT	50-R3	43,177,465.99	9,029,633	34,147,833	824,031	1.91	41.4	14,688	0.03	838,719	1.94
310.20		25-R2.5	299,606.95	85,735	213,872	15,695	5.24	13.6	0	-	15,695	5.24

Calculation of Depreciation Rates and Accruals for Water Plant
Snaveley King Majors & Assoc.

DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF DECEMBER 31, 2016 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED ANNUAL		COMPOSITE REMAINING LIFE (8)	NORMALIZATION		TOTAL	
					ACCRUAL AMOUNT (6)	ACCRUAL RATE (7)		ACCRUAL AMOUNT (9)	ACCRUAL RATE (10)=(9)/(3)	ACCRUAL AMOUNT (11)=(6)+(9)	ACCRUAL RATE (12)=(11)/(3)
PUMPING EQUIPMENT											
311.20 ELECTRIC	43-R1.5	132,562,429.15	46,578,778	85,983,651	2,646,540	2.00	32.5	335,932	0.25	2,982,472	2.25
311.30 DIESEL	43-R1.5	6,441,724.52	649,864	5,791,861	212,749	3.30	27.2	518,040	8.04	730,789	11.34
311.40 HYDRAULIC	43-R1.5	2,408,973.35	144,382	2,264,591	57,264	2.38	39.5	28,016	1.16	85,280	3.54
311.50 OTHER	43-R1.5	9,415,781.10	5,057,036	4,358,745	131,344	1.39	33.2	10,034	0.11	141,378	1.50
TOTAL PUMPING EQUIPMENT		150,828,908.12	52,430,060	98,398,848	3,047,897	2.02	32.3	966,876	0.64	3,939,919	2.61
WATER TREATMENT											
320.10 STRUCTURES AND IMPROVEMENTS											
DELAWARE RIVER REGIONAL	60-S0	63,318,399.17	28,958,232	34,360,167	997,885	1.58	34.4				
SWIMMING RIVER	60-S0	47,804,699.22	32,541,411	15,263,288	944,385	1.98	16.2				
JUMPING BROOK	60-S0	3,270,108.20	520,721	2,749,387	84,272	2.58	32.6				
CANOE BROOK	60-S0	7,312,816.41	865,003	6,447,813	146,073	2.00	44.1				
CANAL ROAD	60-S0	101,733,515.16	41,140,597	60,592,918	1,723,820	1.69	35.2				
RARITAN MILLSTONE	60-S0	70,062,995.42	33,715,380	36,347,615	1,524,311	2.18	23.8				
OTHER	33-L0.5	80,678,846.59	21,211,221	59,467,626	2,356,454	2.92	25.2				
TOTAL STRUCTURES AND IMPROVEMENTS		374,181,380.17	158,952,565	215,228,814	7,777,200	2.08	27.7	476,933	0.13	8,254,133	2.21
320.20 FILTER MEDIA	9-S1	10,737,583.93	2,462,278	8,275,306	1,568,345	14.61	5.3	83,549	0.78	1,651,894	15.38
TOTAL WATER TREATMENT		384,918,964.10	161,414,843	223,504,120	9,345,545	2.43	23.9	631,134	0.16	9,906,027	2.57
330.00 DISTRIBUTION RESERVOIRS AND STANDPIPES	124-S0	97,687,456.99	35,938,847	61,748,610	582,534	0.60	106.0	198,236	0.20	780,770	0.80
MAINS											
331.01 OTHER	120-R2.5	479,996,082.92	109,132,613	370,863,470	3,753,742	0.78	98.8	114,730	0.02	3,868,472	0.81
331.10 4 INCH AND LESS	120-R2.5	62,842,099.34	2,391,872	60,450,227	578,626	0.92	104.5	1,202,625	1.91	1,781,251	2.83
331.20 6 INCH TO 8 INCH	120-R2.5	645,142,223.98	47,047,557	598,094,667	5,528,518	0.86	108.2	5,166,624	0.80	10,695,142	1.66
331.30 10 INCH TO 16 INCH	120-R2.5	435,595,786.93	48,361,549	387,234,238	3,660,415	0.84	105.8	1,178,772	0.27	4,839,187	1.11
331.40 18 INCH AND GREATER	120-R2.5	245,307,897.54	30,583,356	214,724,542	1,998,704	0.81	107.4	1,095,152	0.45	3,093,856	1.26
TOTAL MAINS		1,868,884,090.71	237,516,947	1,631,367,144	15,520,005	0.83	105.1	9,777,069	0.52	24,277,908	1.30
332.00 FIRE MAINS	70-R2	2,084,484.44	112,736	1,971,748	32,545	1.56	60.6	183,894	8.82	216,439	10.38
333.00 SERVICES	75-R2.5	463,956,779.11	97,445,280	366,511,499	5,767,869	1.24	63.5	4,271,978	0.92	10,039,847	2.16
334.00 METER INSTALLATIONS AND VAULTS	40-R3	179,668,922.69	24,651,844	155,017,079	5,249,478	2.92	29.5	1,139,496	0.63	6,388,974	3.56
334.10 METERS	29-O1	184,696,595.21	96,132,216	88,564,379	3,513,065	1.90	25.2	2,629,873	1.42	6,142,938	3.33
335.00 FIRE HYDRANTS	70-R3	128,435,479.36	17,899,899	110,535,580	1,928,728	1.50	57.3	1,917,580	1.49	3,846,308	2.99
336.00 BACKFLOW PREVENTERS	40-S2.5	328.33	63	265	9	2.74	29.4	0	-	9	2.74
OTHER PLANT AND EQUIPMENT											
339.10 INTANGIBLE PLANT	30-R3	1,170,831.02	469,723	701,108	39,563	3.38	17.7	0	-	39,563	3.38
339.20 SUPPLY	30-R3	605,440.52	41,963	563,478	20,568	3.40	27.4	0	-	20,568	3.40
339.30 TREATMENT	50-R2.5	1,206,203.76	154,778	1,051,426	23,086	1.91	45.5	0	-	23,086	1.91
339.40 RESIDUALS HANDLING EQUIPMENT	40-R3	3,405,226.61	995,022	2,410,205	114,307	3.36	21.1	0	-	114,307	3.36
339.50 TRANSMISSION AND DISTRIBUTION	35-R3	75,760.18	58,501	17,259	542	0.72	31.8	13,228	17.46	13,770	18.18
339.60 CPS	5-SQ	4,652,780.58	2,139,154	2,513,627	828,280	17.80	3.0	0	-	828,280	17.80
TOTAL OTHER PLANT AND EQUIPMENT		11,116,242.67	3,859,141	7,257,103	1,026,346	9.23	7.1	36,254	0.33	1,039,574	9.35
OFFICE FURNITURE AND EQUIPMENT											
340.10 FURNITURE	20-SQ	14,431,129.22	10,207,169	4,223,960	573,920	3.98	7.4	1,575	0.01	575,495	3.99
340.20 COMPUTERS AND PERIPHERAL EQUIPMENT	5-SQ	12,179,618.01	9,654,530	2,525,088	561,131	4.61	4.5	11,850	0.10	572,981	4.70
340.30 COMPUTER SOFTWARE	10-SQ	93,480,263.93	24,689,928	68,790,336	10,773,847	11.53	6.4	5,511	0.01	10,779,358	11.53
340.31 COMPUTER SOFTWARE - MAINFRAME	8-SQ	442,166.27	385,572	56,594	0	-	-	0	-	0	-
340.40 DATA HANDLING EQUIPMENT	10-SQ	392,375.10	392,375	0	0	-	-	2,214	0.56	2,214	0.56
340.50 OTHER OFFICE EQUIPMENT	15-SQ	139,540.95	138,541	1,000	1,000	0.72	1.0	0	-	1,000	0.72
TOTAL OFFICE FURNITURE AND EQUIPMENT		121,065,093.48	45,468,115	75,596,978	11,909,898	9.84	6.3	23,986	0.02	11,931,048	9.86

Calculation of Depreciation Rates and Accruals for Water Plant
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DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST	BOOK	FUTURE	CALCULATED ANNUAL		COMPOSITE	NORMALIZATION		TOTAL	
		AS OF DECEMBER 31, 2016 (3)	DEPRECIATION RESERVE (4)		ACCRRUAL AMOUNT (6)	ACCRRUAL RATE (7)		REMAINING LIFE (8)	ACCRRUAL AMOUNT (9)	ACCRRUAL RATE (10)=(9)/(3)	ACCRRUAL AMOUNT (11)=(6)+(9)
TRANSPORTATION EQUIPMENT											
341.10 LIGHT DUTY TRUCKS	10-L2	5,668,102.38	5,249,141	418,961	44,101	0.78	9.5	(120,648)	(2.13)	(76,547)	(1.35)
341.20 HEAVY DUTY TRUCKS	13-L2.5	12,683,452.29	3,798,551	8,884,901	910,645	7.18	9.8	(151,737)	(1.20)	758,908	5.98
341.30 AUTOS	10-S0.5	2,845,423.61	1,241,439	1,603,985	276,974	9.73	5.8	(42,144)	(1.48)	234,830	8.25
341.40 OTHER	20-S2.5	4,867,438.80	1,280,125	3,587,314	233,024	4.79	15.4	(8,650)	(0.18)	224,374	4.61
TOTAL TRANSPORTATION EQUIPMENT		26,064,417.08	11,569,256	14,495,161	1,464,744	5.62	9.9	(323,179)	(1.24)	1,141,565	4.38
342.00 STORES EQUIPMENT	25-SQ	1,771,748.68	529,413	1,242,336	139,338	7.86	8.9	397	0.02	139,735	7.89
343.00 TOOLS, SHOP, AND GARAGE EQUIPMENT	25-SQ	11,118,612.29	4,096,272	7,022,340	618,279	5.56	11.4	28,222	0.25	646,501	5.81
344.00 LABORATORY EQUIPMENT	20-SQ	3,463,535.61	1,384,149	2,079,387	266,663	7.70	7.8	1,562	0.05	268,225	7.74
345.00 POWER OPERATED EQUIPMENT	20-R2	2,294,558.13	970,778	1,323,780	95,682	4.17	13.8	7,112	0.31	102,794	4.48
346.00 COMMUNICATION EQUIPMENT	15-SQ	30,806,504.78	19,164,964	11,641,541	933,716	3.03	12.5	18,464	0.06	952,180	3.09
347.00 MISCELLANEOUS EQUIPMENT	25-SQ	10,275,309.89	1,765,284	8,510,026	478,914	4.66	17.8	25,629	0.25	504,543	4.91
348.00 OTHER TANGIBLE EQUIPMENT	25-SQ	469,936.02	132,981	336,955	34,208	7.28	9.9	318	0.07	34,526	7.35
TOTAL DEPRECIABLE PLANT		4,347,391,505.40	995,547,326	3,351,844,178	73,841,571	1.70	45.4	21,540,057	0.50	95,381,628	2.19
TOTAL UTILITY PLANT IN SERVICE		4,383,419,103.39	995,424,320	3,351,844,178	73,841,571			21,540,057		95,381,628	2.18

* Life Span Procedure was used. Curve shown is Interim Survivor Curve.

Spanos Proposed Annual Accrual and Rate 123,511,599 **2.84**

Calculation of Normalized Net Salvage Amounts for Water Plant
Snively King Majoros & Assoc.

DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST	BOOK DEPRECIATION RESERVE	FUTURE ACCRUALS	CALCULATED ANNUAL		COMPOSITE REMAINING LIFE (8)=(5)/(6)	NORMALIZATION		TOTAL		
		AS OF DECEMBER 31, 2016 (3)	(4)	(5)	ACCRUAL AMOUNT (6)	ACCRUAL RATE (7)=(6)/(3)		ACCRUAL AMOUNT (9)	ACCRUAL RATE (10)=(9)/(3)	ACCRUAL AMOUNT (11)=(6)+(9)	ACCRUAL RATE (12)=(11)/(3)	
DEPRECIABLE PLANT												
354.00	STRUCTURES AND IMPROVEMENTS											
	COLLECTION	35-S0	11,383,279.62	2,759,207	8,624,073	323,856	2.85	26.6	10,577	0.09	334,433	2.94
	SPP	35-S0	5,968,028.84	1,759,193	4,208,836	154,145	2.58	27.3	5,821	0.10	159,966	2.68
	TDP	35-S0	13,072,603.64	8,445,229	4,627,375	209,041	1.60	22.1	1,122	0.01	210,163	1.61
	GENERAL	35-S0	4,610,588.92	1,307,183	3,303,406	118,519	2.57	27.9	7,145	0.15	125,664	2.73
	GENERAL - LEASE	35-S0	894,951.86	580,413	314,539	16,416	1.83	19.2	830	0.09	17,246	1.93
	TOTAL ACCOUNT 354.00		35,929,452.88	14,851,225	21,078,229	821,977	2.29	25.6	25,495	0.06	847,472	2.36
355.00	POWER GENERATION EQUIPMENT											
	COLLECTION	25-R2.5	500,220.86	112,545	387,676	19,023	3.80	20.4	2,138	0.43	21,161	4.23
	TDP	25-R2.5	262,148.22	55,978	206,170	10,602	4.04	19.4	420	0.16	11,022	4.20
	TOTAL ACCOUNT 355.00		762,369.08	168,523	593,846	29,625	3.89	20.0	2,558	0.34	32,183	4.22
360.00	COLLECTION SEWERS - FORCE MAINS	65-R2.5	2,724,811.83	1,061,163	1,663,649	33,551	1.23	49.6	388	0.01	33,939	1.25
361.10	COLLECTION SEWERS - GRAVITY MAINS	150-R3	142,465,394.09	31,424,413	111,040,981	817,680	0.57	135.8	211,213	0.15	1,028,893	0.72
361.11	COLLECTION SEWERS - GRAVITY MAINS - OTHER	60-R2.5	7,894,344.81	1,498,340	6,396,005	144,536	1.83	44.3	14,263	0.18	158,799	2.01
362.00	SPECIAL COLLECTING STRUCTURES	50-R3	285,010.87	131,704	153,307	5,753	2.02	26.6	0	-	5,753	2.02
363.00	SERVICE LATERALS	65-R2.5	38,012,077.71	6,965,932	31,046,146	551,062	1.45	56.3	309,661	0.81	860,723	2.26
364.00	FLOW MEASURING DEVICES	35-S1	131,329.70	23,568	107,762	3,325	2.53	32.4	0	-	3,325	2.53
370.00	RECEIVING WELLS	30-R1.5	327,647.44	58,937	268,710	13,162	4.02	20.4	192	0.06	13,374	4.08
371.00	PUMPING EQUIPMENT											
	ELECTRIC	20-S0.5	7,415,460.81	2,949,860	4,465,601	350,946	4.73	12.7	18,062	0.24	369,008	4.98
	OTHER	20-S0.5	1,201,246.59	515,395	685,852	44,030	3.67	15.6	599	0.05	44,629	3.72
	MISCELLANEOUS	20-S0.5	227,626.50	27,012	200,614	14,776	6.49	13.6	0	-	14,776	6.49
	TOTAL ACCOUNT 371.00		8,844,333.90	3,492,267	5,352,067	409,752	4.63	13.1	18,661	0.21	428,413	4.84
380.00	TREATMENT AND DISPOSAL EQUIPMENT											
	TREATMENT AND DISPOSAL EQUIPMENT	27-R1.5	4,137,757.43	1,023,412	3,114,345	130,664	3.16	23.8	13,089	0.32	143,753	3.47
	GRIT REMOVAL	27-R1.5	36,894.00	24,691	12,203	1,267	3.43	9.6	0	-	1,267	3.43
	SEDIMENTATION TANKS AND ACCESSORIES	27-R1.5	3,275,980.74	2,037,758	1,238,223	113,491	3.46	10.9	26,062	0.80	139,553	4.26
	SLUDGE AND EFFLUENT REMOVAL	27-R1.5	263,215.12	164,389	98,826	9,093	3.45	10.9	0	-	9,093	3.45
	SLUDGE DIG TANK	27-R1.5	4,791.10	21	4,770	179	3.74	26.6	0	-	179	3.74
	SLUDGE DRYING AND FILTERING	27-R1.5	767,620.00	508,254	259,366	26,395	3.44	9.8	6,500	0.85	32,895	4.29
	SECONDARY TREATMENT FILTERS	27-R1.5	3,480,948.94	1,738,958	1,741,991	123,063	3.54	14.2	22,241	0.64	145,304	4.17
	AUXILIARY EFFLUENT TREATMENT	27-R1.5	572,707.53	224,445	348,263	20,557	3.59	16.9	21	-	20,578	3.59
	OTHER SEWER REMOVAL	27-R1.5	102,298.59	52,469	49,830	3,608	3.53	13.8	0	-	3,608	3.53
	CHEMICAL TREATMENT PLANT	27-R1.5	346,564.27	182,321	164,243	12,926	3.73	12.7	266	0.08	13,192	3.81
	OTHER	27-R1.5	872,343.65	521,697	350,647	30,452	3.49	11.5	0	-	30,452	3.49
	TOTAL ACCOUNT 380.00		13,861,121.37	6,478,415	7,382,707	471,695	3.40	15.7	68,179	0.49	539,874	3.89
381.00	PLANT SEWERS	50-R2.5	898,461.35	162,279	736,182	15,615	1.74	47.1	886	0.10	16,501	1.84
382.00	OUTFALL SEWER LINES	40-R3	257,256.14	179,313	77,943	3,757	1.46	20.7	0	-	3,757	1.46
389.00	OTHER PLANT AND MISCELLANEOUS EQUIPMENT											
	INTANGIBLES	20-S3	3,546,795.67	2,257,100	1,289,696	162,551	4.58	7.9	0	-	162,551	4.58
	COLLECTION	30-R2.5	9,090.00	237	8,853	310	3.41	28.6	0	-	310	3.41
	CPS	10-S5	19,839.07	188	19,651	2,069	10.43	9.5	0	-	2,069	10.43
	TOTAL ACCOUNT 389.00		3,575,724.74	2,257,525	1,318,200	164,930	4.61	8.0	0	-	164,930	4.61
390.00	OFFICE FURNITURE AND EQUIPMENT	20-SQ	44,629.67	37,212	7,418	789	1.77	9.4	0	-	789	1.77
390.20	OFFICE FURNITURE AND EQUIPMENT - COMPUTERS AND PERIPHERAL EQUIPMENT	5-SQ	5,279.06	1,248	4,031	1,612	30.54	2.5	193	3.66	1,805	34.19
391.00	TRANSPORTATION EQUIPMENT	11-L3	664,738.54	352,602	312,137	32,816	4.94	9.5	151	0.02	32,967	4.96
391.20	TRANSPORTATION EQUIPMENT - HEAVY DUTY TRUCKS	15-L3	350,262.67	234,227	116,036	16,867	4.82	6.9	710	0.20	17,577	5.02
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	25-SQ	197,651.64	38,044	159,608	26,955	13.64	5.9	0	-	26,955	13.64
394.00	LABORATORY EQUIPMENT	20-SQ	106,614.70	64,286	42,329	3,324	3.12	12.7	223	0.21	3,547	3.33
395.00	POWER OPERATED EQUIPMENT	23-L2.5	495,117.17	246,426	248,691	19,158	3.87	13.0	3	-	19,161	3.87
396.00	COMMUNICATION EQUIPMENT	15-SQ	824,015.13	174,157	649,858	70,504	8.56	9.2	1,849	0.22	72,353	8.78
397.00	MISCELLANEOUS EQUIPMENT	25-SQ	1,110,601.13	617,304	493,297	28,448	2.56	17.3	1,267	0.11	29,715	2.68
398.00	OTHER TANGIBLE EQUIPMENT	25-SQ	71,825.02	29,176	42,649	2,072	2.82	20.6	78	0.11	2,150	2.99
	TOTAL DEPRECIABLE PLANT		259,840,070.64	70,548,286	189,291,788	3,688,985	1.42	51.3	655,970	0.25	4,344,955	1.67

Calcualtion of Normalized Net Salvage Amounts for Water Plant
Snavely King Majoros & Assoc.

DEPRECIABLE GROUP	SURVIVOR CURVE	ORIGINAL COST AS OF DECEMBER 31, 2016	BOOK DEPRECIATION RESERVE	FUTURE ACCRUALS	CALCULATED ANNUAL		COMPOSITE REMAINING LIFE	NORMALIZATION		TOTAL	
					ACCRUAL AMOUNT	ACCRUAL RATE		ACCRUAL AMOUNT	ACCRUAL RATE	ACCRUAL AMOUNT	ACCRUAL RATE
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(6)/(3)	(8)=(5)/(6)	(9)	(10)=(9)/(3)	(11)=(6)*(9)	(12)=(11)/(3)
NONDEPRECIABLE PLANT AND ACCOUNTS NOT STUDIED											
351.00	ORGANIZATION	32,045.04	4,504.00								
352.00	FRANCHISES	1,418,304.74	222,427.00								
352.20	OTHER INTANGIBLE PLANT	63,043.57									
353.20	LAND AND LAND RIGHTS - COLLECTION	156,144.18									
353.30	LAND AND LAND RIGHTS - SFP	130,393.42									
353.40	LAND AND LAND RIGHTS - TDP	<u>79,767.37</u>	<u>15,404.00</u>								
	TOTAL NONDEPRECIABLE PLANT	<u>1,879,698.32</u>	<u>242,335</u>								
	TOTAL UTILITY PLANT	<u>261,719,768.96</u>	<u>70,790,621</u>	<u>189,291,788</u>	<u>3,688,985</u>			<u>655,970</u>		<u>4,344,955</u>	

**Calculation of Normalized Net Salvage Amounts for Water Plant
Snavey King Majoros & Assoc.**

ACCOUNT	2014		2015		2016		NET SALVAGE	NET SALVAGE NORMALIZATION (9)=(8)/3
	COST OF REMOVAL	GROSS SALVAGE	COST OF REMOVAL	GROSS SALVAGE	COST OF REMOVAL	GROSS SALVAGE		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)/3
304.10	162,895	103,574	232,473		199,764		(491,558)	(163,853)
304.20	177,168	112,649	234,721		42,514		(341,754)	(113,918)
304.30	100,634	63,986	173,405		310,224		(520,276)	(173,425)
304.40	72,147	45,873	490,290		14,180		(530,744)	(176,915)
304.50	99,896	63,517	61,461		74,942		(172,781)	(57,594)
304.60	7,729	4,914	39,724		10,552		(53,090)	(17,697)
304.70	802	510	1,155		824		(2,271)	(757)
304.80	(17)	(11)					6	2
305.00	2	1	197,534				(197,535)	(65,845)
306.00	786	500					(286)	(95)
307.00	69,347	44,093	697,714		224,877		(947,845)	(315,948)
309.00	12,590	8,005	279,685		600		(284,870)	(94,957)
310.00	9,633	6,125	21,905		18,650		(44,063)	(14,688)
311.20	310,176	197,220	472,418		422,420		(1,007,795)	(335,932)
311.30	1,983	1,261	1,514,724		38,674		(1,554,121)	(518,040)
311.40	38,131	24,245	66,142		4,021		(84,049)	(28,016)
311.50	2,884	1,834	20,291		8,762		(30,103)	(10,034)
320.10	307,530	195,537	1,109,934		209,397	526	(1,430,798)	(476,933)
320.20	25,824	16,420	205,072		36,171		(250,647)	(83,549)
330.00	47,658	30,302	107,191		470,161		(594,707)	(198,236)
331.01	29,141	18,529	116,771		216,808		(344,191)	(114,730)
331.10	1,402,769	891,925	2,907,576	1,343,268	1,533,840	1,117	(3,607,874)	(1,202,625)
331.20	2,758,411	1,754,582	10,487,355	28,918	4,039,265	1,659	(15,499,872)	(5,166,624)
331.30	318,745	203,596	2,524,902		896,376	109	(3,536,317)	(1,178,772)
331.40	299,591	190,490	2,714,905		461,450		(3,285,456)	(1,095,152)
332.00	56,181	35,722	528,348		2,874		(551,681)	(183,894)
333.00	3,974,172	2,526,905	6,380,155		4,990,330	1,817	(12,815,935)	(4,271,978)
334.00	1,321,911	882,118	1,784,086		1,195,173	563	(3,418,489)	(1,139,496)
334.10	1,856,126	1,459,600	4,218,517	243,340	3,871,392	353,477	(7,889,618)	(2,629,873)
335.00	1,787,607	1,150,158	2,692,631	2,614	2,426,789	1,513	(5,752,741)	(1,917,580)
339.50	108,638	69,076	122				(39,685)	(13,228)
340.10	1,577	1,003	2,926	44	1,268		(4,724)	(1,575)
340.20	11,803	15,672	17,051	6,686	31,134	2,081	(35,550)	(11,850)
340.30			16,050		483		(16,533)	(5,511)
340.40			6,643				(6,643)	(2,214)
341.10			(16,275)	258,089	1,899	89,479	361,945	120,648

341.20	(13,801)	105,146	(13,847)	162,821	3,461	163,056	455,211	151,737
341.30			(7,380)	86,776	700	32,975	126,431	42,144
341.40					563	26,512	25,949	8,650
342.00			1,192				(1,192)	(397)
343.00	9,193	5,845	61,613		19,704		(84,665)	(28,222)
344.00	4,701	2,989			2,975		(4,687)	(1,562)
345.00	736	468	(54)		21,122		(21,335)	(7,112)
346.00	6,122	3,892	24,123	1,071	30,111		(55,392)	(18,464)
347.00	20,596	13,096	58,541		10,846		(76,888)	(25,629)
348.00	1,409	896			440		(953)	(318)
TOTAL	15,403,424	10,252,261	40,431,790	2,133,626	21,845,732	674,887	(64,620,172)	(21,540,057)

	\$ 1,278,325
	\$ 8,515,661
Excluded Gross Salvage	\$ 9,793,986

Observed Life Table Results

NJAW WR17090985

Account: 307.0 - Wells and Springs

Age	Exposures	Retiremen	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors	Age	Exposures	Retirements	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors	
BAND		1889 - 2016				BAND		1976 - 2016				
0	57,255,159	19,962	0.0349	99.9651	1.0000	0	50,651,655	19,962	0.0394	99.9606	1.0000	
0.5	56,423,071	27,038	0.0479	99.9521	0.9997	0.5	49,827,983	27,038	0.0543	99.9457	0.9996	
1.5	49,782,753	145,561	0.2924	99.7076	0.9992	1.5	43,194,972	145,561	0.3370	99.6630	0.9991	
2.5	47,027,258	360,747	0.7671	99.2329	0.9963	2.5	41,216,551	359,546	0.8723	99.1277	0.9957	
3.5	45,301,467	218,771	0.4829	99.5171	0.9886	3.5	39,547,403	218,634	0.5528	99.4472	0.9870	
4.5	41,740,619	170,543	0.4086	99.5914	0.9838	4.5	36,069,450	166,785	0.4624	99.5376	0.9816	
5.5	38,655,059	293,392	0.7590	99.2410	0.9798	5.5	33,290,542	293,392	0.8813	99.1187	0.9770	
6.5	37,831,623	38,691	0.1023	99.8977	0.9724	6.5	32,621,556	25,754	0.0789	99.9211	0.9684	
7.5	36,947,555	190,980	0.5169	99.4831	0.9714	7.5	32,714,940	190,980	0.5838	99.4162	0.9676	
8.5	34,644,033	153,690	0.4436	99.5564	0.9664	8.5	30,859,628	153,690	0.4980	99.5020	0.9620	
9.5	32,601,176	174,020	0.5338	99.4662	0.9621	9.5	28,867,594	174,020	0.6028	99.3972	0.9572	
10.5	31,759,386	56,032	0.1764	99.8236	0.9569	10.5	28,546,380	44,750	0.1568	99.8432	0.9514	
11.5	31,428,454	202,057	0.6429	99.3571	0.9553	11.5	28,510,881	197,755	0.6936	99.3064	0.9499	
12.5	29,655,597	203,255	0.6854	99.3146	0.9491	12.5	26,819,218	194,594	0.7256	99.2744	0.9434	
13.5	29,128,284	147,487	0.5063	99.4937	0.9426	13.5	26,397,035	147,487	0.5587	99.4413	0.9365	
14.5	28,829,535	61,036	0.2117	99.7883	0.9378	14.5	26,401,136	55,339	0.2096	99.7904	0.9313	
15.5	28,251,768	253,728	0.8981	99.1019	0.9358	15.5	26,135,276	178,252	0.6820	99.3180	0.9293	
16.5	27,583,847	179,686	0.6514	99.3486	0.9274	16.5	25,548,021	178,698	0.6995	99.3005	0.9230	
17.5	26,956,069	638,425	2.3684	97.6316	0.9214	17.5	24,970,421	610,206	2.4437	97.5563	0.9165	
18.5	23,886,211	41,661	0.1744	99.8256	0.8996	18.5	21,955,212	41,661	0.1898	99.8102	0.8941	
19.5	23,083,975	429,509	1.8606	98.1394	0.8980	19.5	21,240,876	429,509	2.0221	97.9779	0.8924	
20.5	22,619,112	175,615	0.7764	99.2236	0.8813	20.5	20,871,067	175,615	0.8414	99.1586	0.8744	
21.5	22,135,096	75,249	0.3400	99.6600	0.8745	21.5	20,496,413	72,449	0.3535	99.6465	0.8670	
22.5	20,782,828	66,409	0.3195	99.6805	0.8715	22.5	19,198,500	66,409	0.3459	99.6541	0.8640	
23.5	18,895,077	91,804	0.4859	99.5141	0.8687	23.5	17,310,749	87,223	0.5039	99.4961	0.8610	
24.5	17,329,408	249,577	1.4402	98.5598	0.8645	24.5	15,766,966	243,686	1.5455	98.4545	0.8566	
25.5	13,760,552	117,672	0.8551	99.1449	0.8520	25.5	12,240,197	117,672	0.9614	99.0386	0.8434	
26.5	13,329,321	157,999	1.1853	98.8147	0.8447	26.5	11,874,145	157,999	1.3306	98.6694	0.8353	
27.5	10,816,530	26,090	0.2412	99.7588	0.8347	27.5	9,426,094	24,844	0.2636	99.7364	0.8242	

28.5	10,435,883	48,222	0.4621	99.5379	0.8327	28.5	9,098,333	48,222	0.5300	99.4700	0.8220
29.5	10,149,677	47,824	0.4712	99.5288	0.8289	29.5	8,822,860	47,824	0.5420	99.4580	0.8176
30.5	9,593,329	385,402	4.0174	95.9826	0.8250	30.5	8,266,513	385,402	4.6622	95.3378	0.8132
31.5	8,908,962	39,485	0.4432	99.5568	0.7918	31.5	7,582,145	39,485	0.5208	99.4792	0.7753
32.5	8,275,353	1,281	0.0155	99.9845	0.7883	32.5	6,948,536	1,281	0.0184	99.9816	0.7713
33.5	7,788,652	23,208	0.2980	99.7020	0.7882	33.5	6,469,700	23,208	0.3587	99.6413	0.7711
34.5	7,429,803	15,302	0.2059	99.7941	0.7858	34.5	6,130,106	7,637	0.1246	99.8754	0.7684
35.5	6,767,435	40,949	0.6051	99.3949	0.7842	35.5	5,498,391	40,949	0.7447	99.2553	0.7674
36.5	6,300,706	409,641	6.5015	93.4985	0.7795	36.5	5,410,072	409,641	7.5718	92.4282	0.7617
37.5	5,891,066	115,346	1.9580	98.0420	0.7288	37.5	5,000,431	103,787	2.0756	97.9244	0.7040
38.5	5,733,632	1,012,454	17.6582	82.3418	0.7145	38.5	4,867,146	1,012,454	20.8018	79.1982	0.6894
39.5	4,720,939	158,197	3.3510	96.6490	0.5884	39.5	3,864,445	157,442	4.0741	95.9259	0.5460
40.5	4,370,517	251,380	5.7517	94.2483	0.5686	40.5	3,514,778	240,012	6.8287	93.1713	0.5237
41.5	4,110,722	10,125	0.2463	99.7537	0.5359	41.5	3,266,350	9,847	0.3015	99.6985	0.4880
42.5	4,093,290	10,684	0.2610	99.7390	0.5346	42.5	3,583,908	9,605	0.2680	99.7320	0.4865
43.5	3,507,941	5,381	0.1534	99.8466	0.5332	43.5	2,999,638	5,381	0.1794	99.8206	0.4852
44.5	3,453,539	42,710	1.2367	98.7633	0.5324	44.5	2,955,532	41,790	1.4139	98.5861	0.4843
45.5	3,356,559	11,242	0.3349	99.6651	0.5258	45.5	2,859,473	11,242	0.3932	99.6068	0.4775
46.5	3,123,731	47,976	1.5359	98.4641	0.5241	46.5	2,626,645	40,773	1.5523	98.4477	0.4756
47.5	2,939,435	65,071	2.2137	97.7863	0.5160	47.5	2,482,274	42,370	1.7069	98.2931	0.4682
48.5	2,845,551	87,167	3.0633	96.9367	0.5046	48.5	2,411,092	82,340	3.4150	96.5850	0.4602
49.5	2,588,632	2,581	0.0997	99.9003	0.4891	49.5	2,487,572	2,581	0.1038	99.8962	0.4445
50.5	2,535,736	2,500	0.0986	99.9014	0.4886	50.5	2,434,676	2,181	0.0896	99.9104	0.4441
51.5	2,324,815	45,198	1.9441	98.0559	0.4882	51.5	2,240,230	41,938	1.8720	98.1280	0.4437
52.5	2,159,164	67,457	3.1242	96.8758	0.4787	52.5	2,086,840	67,043	3.2127	96.7873	0.4354
53.5	2,054,597	2,614	0.1272	99.8728	0.4637	53.5	1,994,843	2,614	0.1310	99.8690	0.4214
54.5	2,016,843	34,853	1.7281	98.2719	0.4631	54.5	1,957,088	34,853	1.7808	98.2192	0.4208
55.5	1,890,223	35,352	1.8702	98.1298	0.4551	55.5	1,830,468	35,352	1.9313	98.0687	0.4133
56.5	1,654,217	3,168	0.1915	99.8085	0.4466	56.5	1,595,120	3,040	0.1906	99.8094	0.4053
57.5	1,650,745	36,772	2.2276	97.7724	0.4458	57.5	1,591,776	36,772	2.3101	97.6899	0.4046
58.5	1,566,944	39,368	2.5124	97.4876	0.4358	58.5	1,507,974	39,368	2.6107	97.3893	0.3952
59.5	1,527,576	20,864	1.3659	98.6341	0.4249	59.5	1,468,606	20,081	1.3674	98.6326	0.3849
60.5	1,453,768	500	0.0344	99.9656	0.4191	60.5	1,395,582	500	0.0358	99.9642	0.3796
61.5	1,413,269	20,708	1.4653	98.5347	0.4189	61.5	1,355,083	20,708	1.5282	98.4718	0.3795
62.5	1,357,514	0	0.0000	100.0000	0.4128	62.5	1,299,538	0	0.0000	100.0000	0.3737

63.5	1,329,793	32,495	2.4436	97.5564	0.4128	63.5	1,271,817	27,149	2.1346	97.8654	0.3737
64.5	1,297,298	2,985	0.2301	99.7699	0.4027	64.5	1,244,669	0	0.0000	100.0000	0.3657
65.5	1,283,835	29,211	2.2753	97.7247	0.4018	65.5	1,240,661	29,211	2.3545	97.6455	0.3657
66.5	1,241,377	30,134	2.4275	97.5725	0.3926	66.5	1,203,002	4,748	0.3947	99.6053	0.3571
67.5	1,190,144	2,209	0.1856	99.8144	0.3831	67.5	1,177,156	2,209	0.1877	99.8123	0.3557
68.5	1,187,935	26,473	2.2285	97.7715	0.3824	68.5	1,174,947	26,473	2.2531	97.7469	0.3550
69.5	1,161,462	3,790	0.3263	99.6737	0.3739	69.5	1,153,630	3,790	0.3285	99.6715	0.3470
70.5	1,157,672	4	0.0004	99.9996	0.3726	70.5	1,149,840	4	0.0004	99.9996	0.3459
71.5	1,157,668	368	0.0318	99.9682	0.3726	71.5	1,149,836	60	0.0052	99.9948	0.3459
72.5	1,157,300	0	0.0000	100.0000	0.3725	72.5	1,149,776	0	0.0000	100.0000	0.3459
73.5	1,157,300	517	0.0446	99.9554	0.3725	73.5	1,149,776	517	0.0449	99.9551	0.3459
74.5	1,148,918	0	0.0000	100.0000	0.3724	74.5	1,141,395	0	0.0000	100.0000	0.3457
75.5	1,148,918	16	0.0014	99.9986	0.3724	75.5	1,141,395	16	0.0014	99.9986	0.3457
76.5	1,126,753	0	0.0000	100.0000	0.3724	76.5	1,123,592	0	0.0000	100.0000	0.3457
77.5	750,017	21,472	2.8629	97.1371	0.3724	77.5	746,856	21,472	2.8750	97.1250	0.3457
78.5	728,545	0	0.0000	100.0000	0.3617	78.5	725,384	0	0.0000	100.0000	0.3358
79.5	717,491	5,064	0.7058	99.2942	0.3617	79.5	714,330	5,064	0.7089	99.2911	0.3358
80.5	702,836	1,661	0.2363	99.7637	0.3591	80.5	701,336	1,661	0.2368	99.7632	0.3334
81.5	701,175	0	0.0000	100.0000	0.3583	81.5	699,675	0	0.0000	100.0000	0.3326
82.5	701,175	16,490	2.3518	97.6482	0.3583	82.5	700,175	16,490	2.3551	97.6449	0.3326
83.5	371,445	0	0.0000	100.0000	0.3499	83.5	370,445	0	0.0000	100.0000	0.3248
84.5	371,445	0	0.0000	100.0000	0.3499	84.5	370,445	0	0.0000	100.0000	0.3248
85.5	361,649	9,488	2.6235	97.3765	0.3499	85.5	360,649	9,488	2.6308	97.3692	0.3248
86.5	352,161	12,202	3.4650	96.5350	0.3407	86.5	352,161	12,202	3.4650	96.5350	0.3162
87.5	339,958	0	0.0000	100.0000	0.3289	87.5	339,958	0	0.0000	100.0000	0.3053
88.5	339,958	0	0.0000	100.0000	0.3289	88.5	339,958	0	0.0000	100.0000	0.3053
89.5	339,958	11,200	3.2944	96.7056	0.3289	89.5	339,958	11,200	3.2944	96.7056	0.3053
90.5	27,964	6,691	23.9257	76.0743	0.3181	90.5	27,964	6,691	23.9257	76.0743	0.2952
91.5	21,274	0	0.0000	100.0000	0.2420	91.5	21,274	0	0.0000	100.0000	0.2246
92.5	21,274	0	0.0000	100.0000	0.2420	92.5	21,274	0	0.0000	100.0000	0.2246
93.5	17,867	0	0.0000	100.0000	0.2420	93.5	17,867	0	0.0000	100.0000	0.2246
94.5	17,867	0	0.0000	100.0000	0.2420	94.5	17,867	0	0.0000	100.0000	0.2246
95.5	17,867	0	0.0000	100.0000	0.2420	95.5	17,867	0	0.0000	100.0000	0.2246
96.5	17,867	0	0.0000	100.0000	0.2420	96.5	17,867	0	0.0000	100.0000	0.2246
97.5	17,210	0	0.0000	100.0000	0.2420	97.5	17,210	0	0.0000	100.0000	0.2246

98.5	17,210	0	0.0000	100.0000	0.2420	98.5	17,210	0	0.0000	100.0000	0.2246
99.5	17,210	211	1.2239	98.7761	0.2420	99.5	17,210	211	1.2239	98.7761	0.2246
100.5	16,999	0	0.0000	100.0000	0.2390	100.5	16,999	0	0.0000	100.0000	0.2218
101.5	16,999	6,471	38.0636	61.9364	0.2390	101.5	16,999	6,471	38.0636	61.9364	0.2218
102.5	10,529	0	0.0000	100.0000	0.1480	102.5	10,529	0	0.0000	100.0000	0.1374
103.5	10,529	0	0.0000	100.0000	0.1480	103.5	10,529	0	0.0000	100.0000	0.1374
104.5	10,529	1,000	9.4978	90.5022	0.1480	104.5	10,529	1,000	9.4978	90.5022	0.1374
105.5	9,529	0	0.0000	100.0000	0.1340	105.5	9,529	0	0.0000	100.0000	0.1243
106.5	9,529	0	0.0000	100.0000	0.1340	106.5	9,529	0	0.0000	100.0000	0.1243
107.5	4,729	0	0.0000	100.0000	0.1340	107.5	4,729	0	0.0000	100.0000	0.1243
108.5	4,729	0	0.0000	100.0000	0.1340	108.5	4,729	0	0.0000	100.0000	0.1243
109.5	4,729	0	0.0000	100.0000	0.1340	109.5	4,729	0	0.0000	100.0000	0.1243
110.5	3,362	0	0.0000	100.0000	0.1340	110.5	3,362	0	0.0000	100.0000	0.1243
111.5	3,362	0	0.0000	100.0000	0.1340	111.5	3,362	0	0.0000	100.0000	0.1243
112.5	3,362	0	0.0000	100.0000	0.1340	112.5	3,362	0	0.0000	100.0000	0.1243
113.5	3,362	3,362	100.0000	0.0000	0.1340	113.5	3,362	3,362	100.0000	0.0000	0.1243
114.5	0	0	0.0000	100.0000	0.0000	114.5	0	0	0.0000	100.0000	0.0000
115.5	0	0	0.0000	100.0000	0.0000						
116.5	0	0	0.0000	100.0000	0.0000						
117.5	0	0	0.0000	100.0000	0.0000						
118.5	0	0	0.0000	100.0000	0.0000						
119.5	0	0	0.0000	100.0000	0.0000						
120.5	0	0	0.0000	100.0000	0.0000						
121.5	0	0	0.0000	100.0000	0.0000						
122.5	0	0	0.0000	100.0000	0.0000						
123.5	0	0	0.0000	100.0000	0.0000						
124.5	0	0	0.0000	100.0000	0.0000						
125.5	0	0	0.0000	100.0000	0.0000						
126.5	0	0	0.0000	100.0000	0.0000						

Best Fit Curve Results

NJAW WR17090985

Account: 307.0 - Wells and Springs

Curve	Life	Sum of Squared Differences
BAND	1889 - 2016	
L0	63.0	2,600.805
L0.5	62.0	2,959.458
O2	65.0	3,370.746
O1	59.0	3,638.469
O3	82.0	3,740.782
S-0.5	59.0	3,913.863
L1	61.0	4,015.573
R0.5	59.0	4,870.044
O4	100.0	4,920.783
S0	59.0	5,555.310
L1.5	60.0	6,267.073
R1	59.0	7,681.843
S0.5	60.0	8,144.965
L2	60.0	9,482.713
R1.5	60.0	11,477.962
S1	60.0	11,642.817
S1.5	60.0	16,149.366
R2	60.0	16,550.068
L3	59.0	20,012.375
S2	60.0	21,565.598
R2.5	60.0	22,846.061
R3	60.0	30,498.105
S3	59.0	33,811.958
L4	58.0	37,289.861
R4	58.0	44,932.698
S4	56.0	49,808.148
L5	56.0	53,202.992
R5	54.0	60,161.320
S5	54.0	63,518.569
S6	52.0	74,616.471
SQ	49.0	95,013.287

Analytical Parameters

OLT Placement Band: 1889 - 2016
 OLT Experience Band: 1889 - 2016
 Minimum Life Parameter: 1
 Maximum Life Parameter: 100
 Life Increment Parameter: 1

Best Fit Curve Results

NJAW WR17090985

Account: 307.0 - Wells and Springs

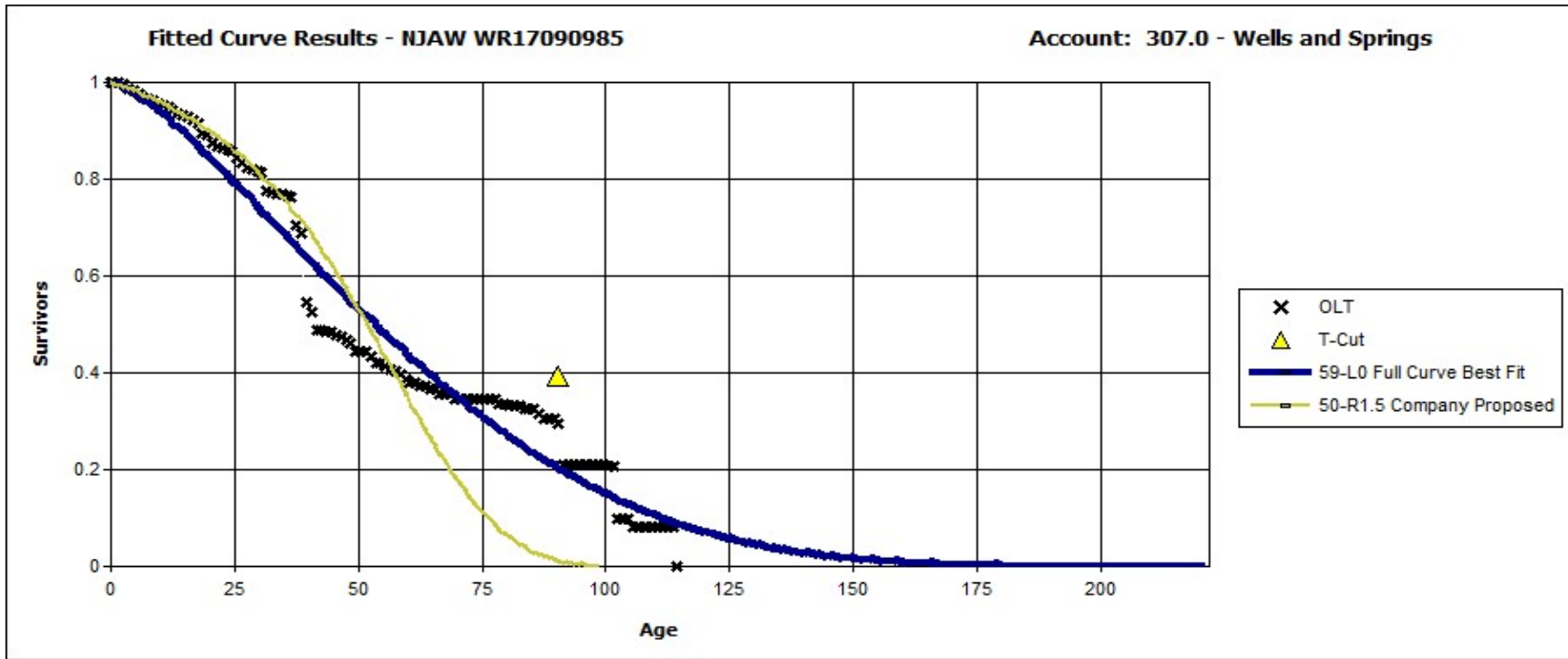
Curve	Life	Sum of Squared Differences
BAND	1976 - 2016	
L0	59.0	3,532.845
L0.5	58.0	3,923.974
O2	61.0	4,338.028
O3	76.0	4,649.958
O1	56.0	4,893.140
L1	58.0	5,026.948
S-0.5	56.0	5,324.207
O4	99.0	5,573.533
R0.5	56.0	6,499.280
L1.5	57.0	7,153.457
S0	57.0	7,178.509
R1	56.0	9,842.582
S0.5	57.0	9,903.956
L2	57.0	10,271.832
S1	57.0	13,586.086
R1.5	57.0	13,869.794
S1.5	57.0	18,149.568
R2	57.0	19,278.772
L3	55.0	20,575.764
S2	56.0	23,613.037
R2.5	56.0	25,467.239
R3	55.0	32,851.208
S3	54.0	35,037.689
L4	53.0	37,531.969
R4	52.0	44,939.764
S4	51.0	48,527.792
L5	50.0	51,342.115
R5	49.0	57,483.795
S5	48.0	60,005.117
S6	46.0	69,494.938
SQ	41.0	86,771.723

Analytical Parameters

OLT Placement Band: 1889 - 2016
 OLT Experience Band: 1976 - 2016
 Minimum Life Parameter: 1
 Maximum Life Parameter: 100
 Life Increment Parameter: 1

Max Age (T-Cut): 90.5

Max Age (T-Cut): 90.5



Analytical Parameters

OLT Placement Band:	1889 - 2016
OLT Experience Band:	1976 - 2016
Minimum Life Parameter:	1
Maximum Life Parameter:	100
Life Increment Parameter:	1
Max Age (T-Cut):	92.0

NJAW WR17090985

307.0 - Wells and Springs

**Calculation of Remaining Life
Based Upon Broad Group/Vintage Group Procedures
Related to Original Cost as of December 31, 2016**

Survivor Curve .. IOWA: 59 L0

<u>Year</u>	<u>Age</u>	<u>Surviving Investment</u>	<u>BG/VG Average</u>		<u>ASL Weights</u>	<u>RL Weights</u>
			<u>Service Life</u>	<u>Remaining Life</u>		
(1)	(2)	(3)	(4)	(5)	(6)=(3)/(4)	(7)=(6)*(5)
2016	0.5	812,125	59.00	58.54	13,765	805,781
2015	1.5	6,613,281	59.00	57.73	112,090	6,471,386
2014	2.5	2,609,933	59.00	56.99	44,236	2,520,962
2013	3.5	1,365,044	59.00	56.29	23,136	1,302,270
2012	4.5	3,342,078	59.00	55.62	56,645	3,150,667
2011	5.5	2,915,017	59.00	54.98	49,407	2,716,528
2010	6.5	530,045	59.00	54.37	8,984	488,434
2009	7.5	845,377	59.00	53.78	14,328	770,542
2008	8.5	2,112,543	59.00	53.20	35,806	1,905,042
2007	9.5	1,889,167	59.00	52.65	32,020	1,685,821
2006	10.5	667,770	59.00	52.11	11,318	589,794
2005	11.5	274,900	59.00	51.59	4,659	240,357
2004	12.5	1,570,800	59.00	51.07	26,624	1,359,806
2003	13.5	324,059	59.00	50.58	5,493	277,792
2002	14.5	151,262	59.00	50.09	2,564	128,418
2001	15.5	516,731	59.00	49.61	8,758	434,523
2000	16.5	414,193	59.00	49.15	7,020	345,025
1999	17.5	448,093	59.00	48.69	7,595	369,799
1998	18.5	2,431,433	59.00	48.24	41,211	1,988,150
1997	19.5	760,575	59.00	47.80	12,891	616,247
1996	20.5	35,354	59.00	47.37	599	28,387
1995	21.5	308,401	59.00	46.95	5,227	245,407
1994	22.5	1,277,019	59.00	46.53	21,644	1,007,144
1993	23.5	1,821,343	59.00	46.12	30,870	1,423,754
1992	24.5	1,473,865	59.00	45.72	24,981	1,142,015
1991	25.5	3,319,279	59.00	45.32	56,259	2,549,452
1990	26.5	313,559	59.00	44.92	5,315	238,741
1989	27.5	2,354,793	59.00	44.53	39,912	1,777,363
1988	28.5	354,557	59.00	44.15	6,009	265,297
1987	29.5	237,984	59.00	43.76	4,034	176,531
1986	30.5	508,523	59.00	43.39	8,619	373,947
1985	31.5	298,965	59.00	43.01	5,067	217,945
1984	32.5	594,124	59.00	42.64	10,070	429,369
1983	33.5	485,420	59.00	42.27	8,227	347,775

1982	34.5	335,641	59.00	41.90	5,689	238,387
1981	35.5	647,067	59.00	41.54	10,967	455,601
1980	36.5	425,780	59.00	41.18	7,217	297,199
1979	37.5	0	59.00	40.83	0	0
1978	38.5	42,088	59.00	40.47	713	28,872
1977	39.5	238	59.00	40.12	4	162
1976	40.5	192,225	59.00	39.78	3,258	129,592
1975	41.5	8,415	59.00	39.43	143	5,624
1974	42.5	7,307	59.00	39.09	124	4,841
1973	43.5	574,664	59.00	38.75	9,740	377,449
1972	44.5	49,022	59.00	38.42	831	31,919
1971	45.5	54,270	59.00	38.08	920	35,031
1970	46.5	221,586	59.00	37.75	3,756	141,793
1969	47.5	136,320	59.00	37.43	2,311	86,475
1968	48.5	28,813	59.00	37.10	488	18,119
1967	49.5	169,752	59.00	36.78	2,877	105,825
1966	50.5	50,315	59.00	36.46	853	31,095
1965	51.5	208,421	59.00	36.15	3,533	127,687
1964	52.5	120,453	59.00	35.83	2,042	73,154
1963	53.5	37,109	59.00	35.52	629	22,342
1962	54.5	35,141	59.00	35.21	596	20,973
1961	55.5	91,767	59.00	34.91	1,555	54,293
1960	56.5	200,654	59.00	34.60	3,401	117,682
1959	57.5	304	59.00	34.30	5	176
1958	58.5	47,030	59.00	34.00	797	27,105
1957	59.5	0	59.00	33.71	0	0
1956	60.5	52,943	59.00	33.41	897	29,983
1955	61.5	39,999	59.00	33.12	678	22,455
1954	62.5	35,047	59.00	32.83	594	19,504
1953	63.5	27,721	59.00	32.55	470	15,292
1952	64.5	0	59.00	32.26	0	0
1951	65.5	10,478	59.00	31.98	178	5,680
1950	66.5	13,247	59.00	31.70	225	7,118
1949	67.5	21,098	59.00	31.42	358	11,237
1948	68.5	0	59.00	31.15	0	0
1947	69.5	0	59.00	30.87	0	0
1946	70.5	0	59.00	30.60	0	0
1945	71.5	0	59.00	30.33	0	0
1944	72.5	0	59.00	30.07	0	0
1943	73.5	0	59.00	29.80	0	0
1942	74.5	7,865	59.00	29.54	133	3,937
1941	75.5	0	59.00	29.28	0	0
1940	76.5	22,149	59.00	29.02	375	10,894
1939	77.5	376,736	59.00	28.76	6,385	183,646
1938	78.5	0	59.00	28.51	0	0
1937	79.5	11,054	59.00	28.25	187	5,293
1936	80.5	9,591	59.00	28.00	163	4,552
1935	81.5	0	59.00	27.75	0	0
1934	82.5	0	59.00	27.50	0	0
1933	83.5	313,240	59.00	27.26	5,309	144,714
1932	84.5	0	59.00	27.01	0	0

1931	85.5	9,796	59.00	26.77	166	4,445
1930	86.5	0	59.00	26.53	0	0
1929	87.5	0	59.00	26.29	0	0
1928	88.5	0	59.00	26.06	0	0
1927	89.5	0	59.00	25.82	0	0
1926	90.5	300,794	59.00	25.59	5,098	130,441
1925	91.5	0	59.00	25.35	0	0
1924	92.5	0	59.00	25.12	0	0
1923	93.5	3,406	59.00	24.89	58	1,437
1922	94.5	0	59.00	24.67	0	0
1921	95.5	0	59.00	24.44	0	0
1920	96.5	0	59.00	24.22	0	0
1919	97.5	657	59.00	24.00	11	267
1918	98.5	0	59.00	23.77	0	0
1917	99.5	0	59.00	23.55	0	0
1916	100.5	0	59.00	23.34	0	0
1915	101.5	0	59.00	23.12	0	0
1914	102.5	0	59.00	22.91	0	0
1913	103.5	0	59.00	22.69	0	0
1912	104.5	0	59.00	22.48	0	0
1911	105.5	0	59.00	22.27	0	0
1910	106.5	0	59.00	22.06	0	0
1909	107.5	4,800	59.00	21.85	81	1,778
1908	108.5	0	59.00	21.64	0	0
1907	109.5	0	59.00	21.44	0	0
1906	110.5	1,366	59.00	21.23	23	492
1905	111.5	0	59.00	21.03	0	0
1904	112.5	0	59.00	20.83	0	0
1903	113.5	0	59.00	20.63	0	0
1902	114.5	0	59.00	20.43	0	0
1901	115.5	0	59.00	20.23	0	0
1900	116.5	0	59.00	20.03	0	0
1899	117.5	0	59.00	19.84	0	0
1898	118.5	0	59.00	19.65	0	0
1897	119.5	0	59.00	19.45	0	0
1896	120.5	0	59.00	19.26	0	0
1895	121.5	0	59.00	19.07	0	0
1894	122.5	0	59.00	18.88	0	0
1893	123.5	0	59.00	18.69	0	0
1892	124.5	0	59.00	18.50	0	0
1891	125.5	0	59.00	18.31	0	0
1890	126.5	0	59.00	18.13	0	0
1889	127.5	0	59.00	17.94	0	0

48,923,980

829,220 41,425,030

AVERAGE SERVICE LIFE	59.00
AVERAGE REMAINING LIFE	49.96

Observed Life Table Results

NJAW WR17090985

Account: 309.00 - Supply Mains

Age	Exposures	Retirements	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors	Age	Exposures	Retiremen	Retiremen Ratio (%)	Survivor Ratio (%)	Cumulative Survivors
BAND		1868 - 2014				BAND		1976 - 2014			
0	32,854,562	1,600	0.0049	99.9951	1.0000	0	29,944,032	0	0.0000	100.0000	1.0000
0.5	32,853,462	1,284	0.0039	99.9961	1.0000	0.5	29,948,067	0	0.0000	100.0000	1.0000
1.5	32,848,339	6,623	0.0202	99.9798	0.9999	1.5	29,944,229	6,623	0.0221	99.9779	1.0000
2.5	32,824,267	19,000	0.0579	99.9421	0.9997	2.5	30,479,021	19,000	0.0623	99.9377	0.9998
3.5	23,584,791	0	0.0000	100.0000	0.9991	3.5	21,247,877	0	0.0000	100.0000	0.9992
4.5	21,027,660	2,182	0.0104	99.9896	0.9991	4.5	18,740,158	2,182	0.0116	99.9884	0.9992
5.5	19,252,463	0	0.0000	100.0000	0.9990	5.5	16,965,091	0	0.0000	100.0000	0.9990
6.5	19,071,939	43,761	0.2295	99.7705	0.9990	6.5	16,786,887	40,232	0.2397	99.7603	0.9990
7.5	18,738,068	1,666	0.0089	99.9911	0.9967	7.5	16,458,478	1,666	0.0101	99.9899	0.9966
8.5	17,926,108	3,754	0.0209	99.9791	0.9966	8.5	15,661,522	3,754	0.0240	99.9760	0.9965
9.5	17,385,453	0	0.0000	100.0000	0.9964	9.5	15,232,338	0	0.0000	100.0000	0.9963
10.5	17,377,690	27,211	0.1566	99.8434	0.9964	10.5	15,484,137	1,119	0.0072	99.9928	0.9963
11.5	17,320,108	6,430	0.0371	99.9629	0.9949	11.5	15,689,978	6,430	0.0410	99.9590	0.9962
12.5	17,313,678	4,320	0.0249	99.9751	0.9945	12.5	15,779,901	4,207	0.0267	99.9733	0.9958
13.5	17,312,589	4,757	0.0275	99.9725	0.9943	13.5	16,130,553	2,845	0.0176	99.9824	0.9956
14.5	17,308,314	2,197	0.0127	99.9873	0.9940	14.5	16,135,231	2,197	0.0136	99.9864	0.9954
15.5	16,931,044	595	0.0035	99.9965	0.9939	15.5	15,762,211	595	0.0038	99.9962	0.9952
16.5	16,930,449	33,184	0.1960	99.8040	0.9938	16.5	15,783,356	32,959	0.2088	99.7912	0.9952
17.5	16,897,265	1,167	0.0069	99.9931	0.9919	17.5	16,070,168	194	0.0012	99.9988	0.9931
18.5	16,887,427	1,819	0.0108	99.9892	0.9918	18.5	16,066,639	1,743	0.0108	99.9892	0.9931
19.5	16,803,060	1,303	0.0078	99.9922	0.9917	19.5	16,045,859	1,303	0.0081	99.9919	0.9930
20.5	10,215,955	5,507	0.0539	99.9461	0.9916	20.5	9,479,699	3,740	0.0395	99.9605	0.9929
21.5	9,353,795	9,513	0.1017	99.8983	0.9911	21.5	8,622,029	9,513	0.1103	99.8897	0.9925
22.5	9,199,176	5,453	0.0593	99.9407	0.9901	22.5	8,751,881	5,453	0.0623	99.9377	0.9914
23.5	8,721,218	0	0.0000	100.0000	0.9895	23.5	8,283,101	0	0.0000	100.0000	0.9908
24.5	8,494,728	1,284	0.0151	99.9849	0.9895	24.5	8,059,983	1,284	0.0159	99.9841	0.9908
25.5	8,490,910	2,301	0.0271	99.9729	0.9893	25.5	8,153,948	2,301	0.0282	99.9718	0.9907
26.5	7,380,782	1,561	0.0211	99.9789	0.9891	26.5	7,064,752	1,561	0.0221	99.9779	0.9904
27.5	7,123,102	0	0.0000	100.0000	0.9889	27.5	6,807,976	0	0.0000	100.0000	0.9902
28.5	7,108,761	3,653	0.0514	99.9486	0.9889	28.5	6,794,813	3,653	0.0538	99.9462	0.9902

29.5	3,026,440	1,467	0.0485	99.9515	0.9884	29.5	2,715,378	1,467	0.0540	99.9460	0.9896
30.5	2,986,029	6,882	0.2305	99.7695	0.9879	30.5	2,674,967	6,882	0.2573	99.7427	0.9891
31.5	2,950,370	8,114	0.2750	99.7250	0.9856	31.5	2,639,644	6,113	0.2316	99.7684	0.9866
32.5	2,942,257	249	0.0084	99.9916	0.9829	32.5	2,636,249	217	0.0082	99.9918	0.9843
33.5	2,942,008	2,449	0.0832	99.9168	0.9828	33.5	2,656,756	821	0.0309	99.9691	0.9842
34.5	2,911,644	59,103	2.0299	97.9701	0.9820	34.5	2,628,020	59,103	2.2489	97.7511	0.9839
35.5	2,827,912	2,932	0.1037	99.8963	0.9621	35.5	2,544,880	2,932	0.1152	99.8848	0.9618
36.5	2,824,980	-2,984	-0.1056	100.1056	0.9611	36.5	2,542,038	-2,984	-0.1174	100.1174	0.9607
37.5	2,824,155	0	0.0000	100.0000	0.9621	37.5	2,541,384	0	0.0000	100.0000	0.9618
38.5	2,809,077	0	0.0000	100.0000	0.9621	38.5	2,636,913	0	0.0000	100.0000	0.9618
39.5	2,808,064	446	0.0159	99.9841	0.9621	39.5	2,636,059	0	0.0000	100.0000	0.9618
40.5	2,789,274	116,749	4.1856	95.8144	0.9619	40.5	2,618,925	116,669	4.4548	95.5452	0.9618
41.5	2,669,046	33	0.0013	99.9987	0.9217	41.5	2,498,777	33	0.0013	99.9987	0.9189
42.5	2,669,012	29,584	1.1084	98.8916	0.9217	42.5	2,498,984	29,584	1.1838	98.8162	0.9189
43.5	2,203,484	708	0.0321	99.9679	0.9114	43.5	2,073,217	708	0.0341	99.9659	0.9080
44.5	2,194,638	5	0.0002	99.9998	0.9111	44.5	2,082,966	5	0.0002	99.9998	0.9077
45.5	2,146,214	26,250	1.2231	98.7769	0.9111	45.5	2,040,725	26,170	1.2824	98.7176	0.9077
46.5	2,119,834	89,715	4.2322	95.7678	0.9000	46.5	2,019,907	89,715	4.4415	95.5585	0.8961
47.5	2,027,799	1,206	0.0595	99.9405	0.8619	47.5	1,927,873	1,206	0.0626	99.9374	0.8563
48.5	2,025,461	3,529	0.1743	99.8257	0.8614	48.5	1,926,802	3,529	0.1832	99.8168	0.8558
49.5	2,006,927	6,893	0.3435	99.6565	0.8599	49.5	1,921,645	6,893	0.3587	99.6413	0.8542
50.5	1,888,562	826	0.0438	99.9562	0.8569	50.5	1,806,479	826	0.0457	99.9543	0.8511
51.5	1,657,512	35,675	2.1524	97.8476	0.8566	51.5	1,579,966	35,675	2.2580	97.7420	0.8507
52.5	1,489,409	555	0.0373	99.9627	0.8381	52.5	1,431,934	480	0.0335	99.9665	0.8315
53.5	1,393,172	0	0.0000	100.0000	0.8378	53.5	1,335,772	0	0.0000	100.0000	0.8312
54.5	1,100,174	2,444	0.2221	99.7779	0.8378	54.5	1,043,134	2,444	0.2343	99.7657	0.8312
55.5	1,091,432	1,767	0.1619	99.8381	0.8360	55.5	1,034,392	1,767	0.1709	99.8291	0.8293
56.5	1,086,993	596	0.0548	99.9452	0.8346	56.5	1,030,070	596	0.0578	99.9422	0.8279
57.5	1,065,084	76,238	7.1579	92.8421	0.8341	57.5	1,008,161	76,238	7.5621	92.4379	0.8274
58.5	726,382	2,966	0.4084	99.5916	0.7744	58.5	670,072	2,966	0.4427	99.5573	0.7648
59.5	719,539	286	0.0397	99.9603	0.7713	59.5	663,229	273	0.0411	99.9589	0.7614
60.5	661,462	1,724	0.2607	99.7393	0.7710	60.5	608,183	1,724	0.2835	99.7165	0.7611
61.5	641,184	7,896	1.2314	98.7686	0.7690	61.5	587,906	7,896	1.3430	98.6570	0.7590
62.5	631,467	1,313	0.2079	99.7921	0.7595	62.5	579,256	1,313	0.2267	99.7733	0.7488
63.5	426,973	0	0.0000	100.0000	0.7579	63.5	374,761	0	0.0000	100.0000	0.7471
64.5	418,092	5,941	1.4211	98.5789	0.7579	64.5	366,691	5,941	1.6203	98.3797	0.7471

65.5	411,870	550	0.1336	99.8664	0.7471	65.5	373,847	550	0.1471	99.8529	0.7350
66.5	314,374	41,012	13.0455	86.9545	0.7461	66.5	276,351	5,789	2.0948	97.9052	0.7339
67.5	253,643	0	0.0000	100.0000	0.6488	67.5	250,843	0	0.0000	100.0000	0.7185
68.5	252,752	3,023	1.1961	98.8039	0.6488	68.5	249,952	3,023	1.2095	98.7905	0.7185
69.5	248,550	0	0.0000	100.0000	0.6410	69.5	245,750	0	0.0000	100.0000	0.7098
70.5	246,139	0	0.0000	100.0000	0.6410	70.5	243,339	0	0.0000	100.0000	0.7098
71.5	246,139	0	0.0000	100.0000	0.6410	71.5	243,339	0	0.0000	100.0000	0.7098
72.5	245,971	0	0.0000	100.0000	0.6410	72.5	245,171	0	0.0000	100.0000	0.7098
73.5	244,064	1,254	0.5139	99.4861	0.6410	73.5	243,264	1,254	0.5156	99.4844	0.7098
74.5	225,108	20	0.0090	99.9910	0.6377	74.5	224,308	20	0.0091	99.9909	0.7062
75.5	225,088	5,310	2.3589	97.6411	0.6377	75.5	224,288	5,310	2.3673	97.6327	0.7061
76.5	219,188	358	0.1634	99.8366	0.6226	76.5	218,388	358	0.1640	99.8360	0.6894
77.5	218,739	1,058	0.4838	99.5162	0.6216	77.5	217,939	1,058	0.4856	99.5144	0.6883
78.5	217,521	1,200	0.5517	99.4483	0.6186	78.5	216,721	1,200	0.5537	99.4463	0.6849
79.5	108,257	941	0.8689	99.1311	0.6152	79.5	107,457	941	0.8754	99.1246	0.6811
80.5	107,157	1,652	1.5412	98.4588	0.6099	80.5	106,357	1,652	1.5528	98.4472	0.6752
81.5	105,501	649	0.6152	99.3848	0.6005	81.5	104,701	649	0.6199	99.3801	0.6647
82.5	104,852	6,468	6.1687	93.8313	0.5968	82.5	104,052	6,468	6.2161	93.7839	0.6606
83.5	98,261	0	0.0000	100.0000	0.5600	83.5	97,461	0	0.0000	100.0000	0.6195
84.5	64,590	10	0.0155	99.9845	0.5600	84.5	63,790	10	0.0157	99.9843	0.6195
85.5	57,583	0	0.0000	100.0000	0.5599	85.5	56,783	0	0.0000	100.0000	0.6194
86.5	51,411	0	0.0000	100.0000	0.5599	86.5	50,611	0	0.0000	100.0000	0.6194
87.5	45,929	943	2.0535	97.9465	0.5599	87.5	45,129	943	2.0899	97.9101	0.6194
88.5	44,986	0	0.0000	100.0000	0.5484	88.5	44,186	0	0.0000	100.0000	0.6065
89.5	43,718	17	0.0379	99.9621	0.5484	89.5	42,918	17	0.0386	99.9614	0.6065
90.5	36,574	191	0.5235	99.4765	0.5482	90.5	35,774	191	0.5352	99.4648	0.6062
91.5	36,383	13	0.0350	99.9650	0.5453	91.5	35,583	13	0.0358	99.9642	0.6030
92.5	32,635	0	0.0000	100.0000	0.5451	92.5	31,835	0	0.0000	100.0000	0.6028
93.5	13,064	673	5.1521	94.8479	0.5451	93.5	12,264	673	5.4882	94.5118	0.6028
94.5	12,391	5	0.0422	99.9578	0.5170	94.5	11,591	5	0.0451	99.9549	0.5697
95.5	12,386	0	0.0000	100.0000	0.5168	95.5	11,586	0	0.0000	100.0000	0.5694
96.5	12,386	0	0.0000	100.0000	0.5168	96.5	11,586	0	0.0000	100.0000	0.5694
97.5	12,386	58	0.4650	99.5350	0.5168	97.5	11,586	58	0.4972	99.5028	0.5694
98.5	12,328	46	0.3729	99.6271	0.5144	98.5	11,528	46	0.3988	99.6012	0.5666
99.5	12,282	290	2.3643	97.6357	0.5125	99.5	11,482	290	2.5290	97.4710	0.5643
100.5	11,992	76	0.6304	99.3696	0.5004	100.5	11,192	76	0.6755	99.3245	0.5501

101.5	9,931	69	0.6939	99.3061	0.4972	101.5	9,131	69	0.7547	99.2453	0.5464
102.5	9,862	0	0.0000	100.0000	0.4938	102.5	9,062	0	0.0000	100.0000	0.5422
103.5	9,409	6,152	65.3806	34.6194	0.4938	103.5	8,609	6,152	71.4561	28.5439	0.5422
104.5	3,257	0	0.0000	100.0000	0.1709	104.5	2,457	0	0.0000	100.0000	0.1548
105.5	3,257	0	0.0000	100.0000	0.1709	105.5	2,457	0	0.0000	100.0000	0.1548
106.5	2,800	0	0.0000	100.0000	0.1709	106.5	2,000	0	0.0000	100.0000	0.1548
107.5	2,800	0	0.0000	100.0000	0.1709	107.5	2,800	0	0.0000	100.0000	0.1548
108.5	2,800	0	0.0000	100.0000	0.1709	108.5	2,800	0	0.0000	100.0000	0.1548
109.5	2,800	0	0.0000	100.0000	0.1709	109.5	2,800	0	0.0000	100.0000	0.1548
110.5	2,800	0	0.0000	100.0000	0.1709	110.5	2,800	0	0.0000	100.0000	0.1548
111.5	2,800	0	0.0000	100.0000	0.1709	111.5	2,800	0	0.0000	100.0000	0.1548
112.5	2,800	0	0.0000	100.0000	0.1709	112.5	2,800	0	0.0000	100.0000	0.1548
113.5	800	0	0.0000	100.0000	0.1709	113.5	800	0	0.0000	100.0000	0.1548
114.5	800	0	0.0000	100.0000	0.1709	114.5	800	0	0.0000	100.0000	0.1548
115.5	800	0	0.0000	100.0000	0.1709	115.5	800	0	0.0000	100.0000	0.1548
116.5	800	0	0.0000	100.0000	0.1709	116.5	800	0	0.0000	100.0000	0.1548
117.5	800	0	0.0000	100.0000	0.1709	117.5	800	0	0.0000	100.0000	0.1548
118.5	800	0	0.0000	100.0000	0.1709	118.5	800	0	0.0000	100.0000	0.1548
119.5	800	0	0.0000	100.0000	0.1709	119.5	800	0	0.0000	100.0000	0.1548
120.5	800	0	0.0000	100.0000	0.1709	120.5	800	0	0.0000	100.0000	0.1548
121.5	800	0	0.0000	100.0000	0.1709	121.5	800	0	0.0000	100.0000	0.1548
122.5	800	0	0.0000	100.0000	0.1709	122.5	800	0	0.0000	100.0000	0.1548
123.5	800	0	0.0000	100.0000	0.1709	123.5	800	0	0.0000	100.0000	0.1548
124.5	800	0	0.0000	100.0000	0.1709	124.5	800	0	0.0000	100.0000	0.1548
125.5	800	0	0.0000	100.0000	0.1709	125.5	800	0	0.0000	100.0000	0.1548
126.5	800	0	0.0000	100.0000	0.1709	126.5	800	0	0.0000	100.0000	0.1548
127.5	800	0	0.0000	100.0000	0.1709	127.5	800	0	0.0000	100.0000	0.1548
128.5	800	0	0.0000	100.0000	0.1709	128.5	800	0	0.0000	100.0000	0.1548
129.5	800	0	0.0000	100.0000	0.1709	129.5	800	0	0.0000	100.0000	0.1548
130.5	800	0	0.0000	100.0000	0.1709	130.5	800	0	0.0000	100.0000	0.1548
131.5	800	0	0.0000	100.0000	0.1709	131.5	800	0	0.0000	100.0000	0.1548
132.5	800	0	0.0000	100.0000	0.1709	132.5	800	0	0.0000	100.0000	0.1548
133.5	800	0	0.0000	100.0000	0.1709	133.5	800	0	0.0000	100.0000	0.1548
134.5	800	0	0.0000	100.0000	0.1709	134.5	800	0	0.0000	100.0000	0.1548
135.5	800	0	0.0000	100.0000	0.1709	135.5	800	0	0.0000	100.0000	0.1548
136.5	800	0	0.0000	100.0000	0.1709	136.5	800	0	0.0000	100.0000	0.1548

137.5	800	0	0.0000	100.0000	0.1709	137.5	800	0	0.0000	100.0000	0.1548
138.5	800	0	0.0000	100.0000	0.1709	138.5	800	0	0.0000	100.0000	0.1548
139.5	800	0	0.0000	100.0000	0.1709	139.5	800	0	0.0000	100.0000	0.1548
140.5	800	0	0.0000	100.0000	0.1709	140.5	800	0	0.0000	100.0000	0.1548
141.5	800	0	0.0000	100.0000	0.1709	141.5	800	0	0.0000	100.0000	0.1548
142.5	800	0	0.0000	100.0000	0.1709	142.5	800	0	0.0000	100.0000	0.1548
143.5	800	0	0.0000	100.0000	0.1709	143.5	800	0	0.0000	100.0000	0.1548
144.5	800	0	0.0000	100.0000	0.1709	144.5	800	0	0.0000	100.0000	0.1548
145.5	800	0	0.0000	100.0000	0.1709	145.5	800	0	0.0000	100.0000	0.1548
146.5	800	0	0.0000	100.0000	0.1709	146.5	800	0	0.0000	100.0000	0.1548
147.5	800	0	0.0000	100.0000	0.1709	147.5	800	0	0.0000	100.0000	0.1548

Best Fit Curve Results

NJAW WR17090985

Account: 309.00 - Supply Mains

Curve	Life	Sum of Squared Differences
BAND	1868 - 2016	
L1.5	100.0	1,436.857
S1	93.0	1,604.369
S0.5	95.0	1,728.276
L1	105.0	1,826.418
L2	98.0	1,850.176
S1.5	92.0	2,321.744
R2	90.0	2,329.592
S0	98.0	2,457.632
R1.5	91.0	2,463.596
L0.5	110.0	2,980.461
R1	94.0	3,425.431
R2.5	89.0	3,467.571
S2	91.0	3,728.755
S-0.5	103.0	4,421.079
L0	118.0	4,532.471
R0.5	101.0	5,217.851
R3	89.0	5,562.526
L3	93.0	5,680.306
O1	112.0	7,044.516
O2	125.0	7,049.684
S3	90.0	8,618.174
R4	90.0	12,279.863
L4	91.0	13,274.839
O3	125.0	17,837.082
S4	91.0	18,165.690
L5	92.0	23,550.832
R5	92.0	25,082.142
S5	92.0	30,212.824
S6	95.0	42,897.197
O4	125.0	42,962.794
SQ	100.0	74,086.667

Analytical Parameters

OLT Placement Band: 1868 - 2014
 OLT Experience Band: 1868 - 2016
 Minimum Life Parameter 1
 Maximum Life Parameter 125
 Life Increment Parameter 1
 Max Age (T-Cut): 104.5

Best Fit Curve Results

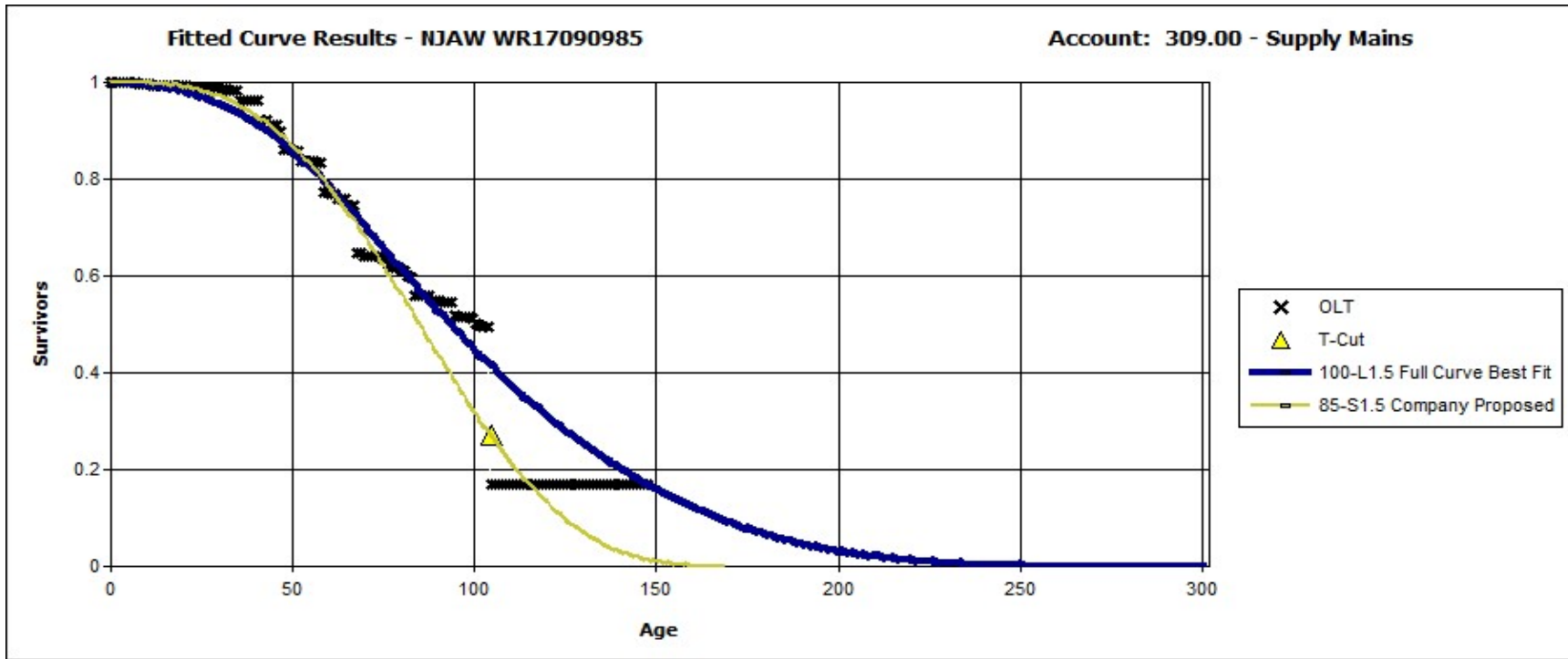
NJAW WR17090985

Account: 309.00 - Supply Mains

Curve	Life	Sum of Squared Differences
BAND	1976 - 2016	
S0.5	102.0	1,767.827
L1	112.0	1,769.085
L1.5	107.0	1,805.500
S1	99.0	1,913.953
S0	106.0	2,154.321
R2	95.0	2,250.064
R1.5	97.0	2,260.412
L0.5	119.0	2,479.805
L2	104.0	2,624.190
S1.5	97.0	2,734.389
R1	101.0	2,974.242
R2.5	94.0	3,215.927
S-0.5	113.0	3,585.237
L0	125.0	3,624.265
S2	96.0	4,197.105
R0.5	110.0	4,294.568
R3	93.0	5,045.429
O1	125.0	5,540.384
L3	99.0	6,413.759
O2	125.0	6,521.102
S3	94.0	8,602.919
R4	93.0	10,577.680
L4	96.0	12,477.354
S4	94.0	16,434.322
L5	96.0	20,647.870
R5	95.0	21,003.290
O3	125.0	21,890.236
S5	96.0	25,531.639
S6	97.0	34,959.181
O4	125.0	50,675.796
SQ	103.0	58,044.736

Analytical Parameters

OLT Placement Band: 1868 - 2014
 OLT Experience Band: 1976 - 2016
 Minimum Life Parameter 1
 Maximum Life Parameter 125
 Life Increment Parameter 1
 Max Age (T-Cut): 104.5



Analytical Parameters

OLT Placement Band:	1868 - 2016
OLT Experience Band:	1868 - 2016
Minimum Life Parameter:	1
Maximum Life Parameter:	125
Life Increment Parameter:	1
Max Age (T-Cut):	106.0

NJAW WR17090985

309.00 - Supply Mains

Calculation of Remaining Life
Based Upon Broad Group/Vintage Group Procedures
Related to Original Cost as of December 31, 2016

Survivor Curve .. IOWA:		100	L1.5			
<u>Year</u>	<u>Age</u>	<u>Surviving Investment</u>	<u>BG/VG Average</u>		<u>ASL Weights</u>	<u>RL Weights</u>
			<u>Service Life</u>	<u>Remaining Life</u>		
(1)	(2)	(3)	(4)	(5)	(6)=(3)/(4)	(7)=(6)*(5)
2016	0.5	0	100.00	99.50	0	0
2015	1.5	0	100.00	98.53	0	0
2014	2.5	17,449	100.00	97.57	174	17,024
2013	3.5	9,220,477	100.00	96.60	92,205	8,907,345
2012	4.5	2,557,131	100.00	95.65	25,571	2,445,822
2011	5.5	1,773,015	100.00	94.70	17,730	1,678,964
2010	6.5	180,524	100.00	93.75	1,805	169,240
2009	7.5	290,110	100.00	92.81	2,901	269,248
2008	8.5	810,294	100.00	91.87	8,103	744,457
2007	9.5	536,901	100.00	90.95	5,369	488,297
2006	10.5	7,763	100.00	90.03	78	6,989
2005	11.5	30,371	100.00	89.11	304	27,065
2004	12.5	0	100.00	88.21	0	0
2003	13.5	0	100.00	87.31	0	0
2002	14.5	0	100.00	86.42	0	0
2001	15.5	375,073	100.00	85.54	3,751	320,828
2000	16.5	0	100.00	84.66	0	0
1999	17.5	0	100.00	83.80	0	0
1998	18.5	8,671	100.00	82.94	87	7,192
1997	19.5	82,548	100.00	82.09	825	67,767
1996	20.5	6,585,996	100.00	81.26	65,860	5,351,478
1995	21.5	856,652	100.00	80.43	8,567	688,966
1994	22.5	145,107	100.00	79.60	1,451	115,511
1993	23.5	472,505	100.00	78.79	4,725	372,297
1992	24.5	226,490	100.00	77.99	2,265	176,637
1991	25.5	2,534	100.00	77.20	25	1,956
1990	26.5	1,107,827	100.00	76.41	11,078	846,492
1989	27.5	256,119	100.00	75.63	2,561	193,713
1988	28.5	14,341	100.00	74.87	143	10,736
1987	29.5	4,078,668	100.00	74.11	40,787	3,022,652

1986	30.5	38,944	100.00	73.36	389	28,569
1985	31.5	28,776	100.00	72.62	288	20,897
1984	32.5	0	100.00	71.89	0	0
1983	33.5	0	100.00	71.16	0	0
1982	34.5	27,916	100.00	70.45	279	19,666
1981	35.5	24,629	100.00	69.74	246	17,177
1980	36.5	0	100.00	69.05	0	0
1979	37.5	3,809	100.00	68.36	38	2,604
1978	38.5	15,079	100.00	67.69	151	10,207
1977	39.5	1,013	100.00	67.03	10	679
1976	40.5	18,344	100.00	66.37	183	12,175
1975	41.5	3,479	100.00	65.73	35	2,287
1974	42.5	0	100.00	65.10	0	0
1973	43.5	435,944	100.00	64.48	4,359	281,101
1972	44.5	8,138	100.00	63.87	81	5,198
1971	45.5	48,419	100.00	63.28	484	30,639
1970	46.5	130	100.00	62.69	1	82
1969	47.5	2,320	100.00	62.12	23	1,441
1968	48.5	1,133	100.00	61.56	11	697
1967	49.5	15,005	100.00	61.01	150	9,155
1966	50.5	111,471	100.00	60.48	1,115	67,415
1965	51.5	230,224	100.00	59.95	2,302	138,024
1964	52.5	132,428	100.00	59.44	1,324	78,712
1963	53.5	95,683	100.00	58.93	957	56,390
1962	54.5	292,998	100.00	58.44	2,930	171,234
1961	55.5	6,298	100.00	57.96	63	3,651
1960	56.5	2,672	100.00	57.49	27	1,536
1959	57.5	21,313	100.00	57.03	213	12,154
1958	58.5	262,464	100.00	56.57	2,625	148,486
1957	59.5	3,877	100.00	56.13	39	2,176
1956	60.5	57,792	100.00	55.70	578	32,187
1955	61.5	18,553	100.00	55.27	186	10,254
1954	62.5	1,821	100.00	54.85	18	999
1953	63.5	203,182	100.00	54.44	2,032	110,611
1952	64.5	8,880	100.00	54.04	89	4,799
1951	65.5	281	100.00	53.64	3	151
1950	66.5	96,946	100.00	53.25	969	51,627
1949	67.5	19,719	100.00	52.87	197	10,426
1948	68.5	891	100.00	52.50	9	468
1947	69.5	1,179	100.00	52.13	12	614
1946	70.5	2,411	100.00	51.77	24	1,248
1945	71.5	0	100.00	51.41	0	0
1944	72.5	168	100.00	51.06	2	86
1943	73.5	1,907	100.00	50.72	19	967
1942	74.5	17,701	100.00	50.38	177	8,918
1941	75.5	0	100.00	50.05	0	0
1940	76.5	591	100.00	49.72	6	294

1939	77.5	90	100.00	49.40	1	44
1938	78.5	160	100.00	49.08	2	78
1937	79.5	108,065	100.00	48.76	1,081	52,695
1936	80.5	159	100.00	48.45	2	77
1935	81.5	5	100.00	48.14	0	2
1934	82.5	0	100.00	47.84	0	0
1933	83.5	123	100.00	47.54	1	58
1932	84.5	33,672	100.00	47.24	337	15,907
1931	85.5	6,997	100.00	46.95	70	3,285
1930	86.5	6,172	100.00	46.66	62	2,880
1929	87.5	5,482	100.00	46.37	55	2,542
1928	88.5	0	100.00	46.08	0	0
1927	89.5	1,268	100.00	45.80	13	581
1926	90.5	7,127	100.00	45.52	71	3,244
1925	91.5	0	100.00	45.24	0	0
1924	92.5	3,735	100.00	44.96	37	1,679
1923	93.5	19,571	100.00	44.68	196	8,744
1922	94.5	0	100.00	44.41	0	0
1921	95.5	0	100.00	44.13	0	0
1920	96.5	0	100.00	43.86	0	0
1919	97.5	0	100.00	43.59	0	0
1918	98.5	0	100.00	43.32	0	0
1917	99.5	0	100.00	43.05	0	0
1916	100.5	0	100.00	42.78	0	0
1915	101.5	1,986	100.00	42.51	20	844
1914	102.5	0	100.00	42.24	0	0
1913	103.5	452	100.00	41.98	5	190
1912	104.5	0	100.00	41.71	0	0
1911	105.5	0	100.00	41.45	0	0
1910	106.5	457	100.00	41.18	5	188
1909	107.5	0	100.00	40.92	0	0
1908	108.5	0	100.00	40.65	0	0
1907	109.5	0	100.00	40.39	0	0
1906	110.5	0	100.00	40.13	0	0
1905	111.5	0	100.00	39.86	0	0
1904	112.5	0	100.00	39.60	0	0
1903	113.5	2,000	100.00	39.34	20	787
1902	114.5	0	100.00	39.08	0	0
1901	115.5	0	100.00	38.81	0	0
1900	116.5	0	100.00	38.55	0	0
1899	117.5	0	100.00	38.29	0	0
1898	118.5	0	100.00	38.03	0	0
1897	119.5	0	100.00	37.77	0	0
1896	120.5	0	100.00	37.51	0	0
1895	121.5	0	100.00	37.25	0	0
1894	122.5	0	100.00	36.99	0	0
1893	123.5	0	100.00	36.73	0	0

1892	124.5	0	100.00	36.47	0	0
1891	125.5	0	100.00	36.21	0	0
1890	126.5	0	100.00	35.95	0	0
1889	127.5	0	100.00	35.70	0	0
1888	128.5	0	100.00	35.44	0	0
1887	129.5	0	100.00	35.18	0	0
1886	130.5	0	100.00	34.92	0	0
1885	131.5	0	100.00	34.67	0	0
1884	132.5	0	100.00	34.41	0	0
1883	133.5	0	100.00	34.16	0	0
1882	134.5	0	100.00	33.91	0	0
1881	135.5	0	100.00	33.65	0	0
1880	136.5	0	100.00	33.40	0	0
1879	137.5	0	100.00	33.15	0	0
1878	138.5	0	100.00	32.90	0	0
1877	139.5	0	100.00	32.65	0	0
1876	140.5	0	100.00	32.40	0	0
1875	141.5	0	100.00	32.15	0	0
1874	142.5	0	100.00	31.90	0	0
1873	143.5	0	100.00	31.66	0	0
1872	144.5	0	100.00	31.41	0	0
1871	145.5	0	100.00	31.17	0	0
1870	146.5	0	100.00	30.92	0	0
1869	147.5	0	100.00	30.68	0	0
1868	148.5	800	100.00	30.44	8	244

32,099,410

320,994 27,380,747

AVERAGE SERVICE LIFE 100.00
 AVERAGE REMAINING LIFE 85.30

Observed Life Table Results

NJAW WR17090985

Account: 310.00 - Power Generation Eqpmt

Age	Exposures	Retiremen	Retiremen	Survivor	Cumulative	Age	Exposures	Retirements	Retirement	Survivor	Cumulative
			Ratio (%)	Ratio (%)	Survivors				Ratio (%)	Ratio (%)	Survivors
BAND		1948 - 2016				BAND		1976 - 2016			
0	44,408,715	25,271	0.0569	99.9431	1.0000	0	43,484,894	25,271	0.0581	99.9419	1.0000
0.5	40,348,871	5,169	0.0128	99.9872	0.9994	0.5	39,425,050	5,169	0.0131	99.9869	0.9994
1.5	36,778,900	21,305	0.0579	99.9421	0.9993	1.5	35,855,079	21,305	0.0594	99.9406	0.9993
2.5	35,959,318	42,732	0.1188	99.8812	0.9987	2.5	35,158,889	42,732	0.1215	99.8785	0.9987
3.5	34,593,461	57,811	0.1671	99.8329	0.9975	3.5	34,157,094	57,811	0.1692	99.8308	0.9975
4.5	22,717,387	115,594	0.5088	99.4912	0.9959	4.5	22,311,287	115,594	0.5181	99.4819	0.9958
5.5	20,082,415	6,282	0.0313	99.9687	0.9908	5.5	19,762,227	6,282	0.0318	99.9682	0.9906
6.5	19,601,025	24,749	0.1263	99.8737	0.9905	6.5	19,362,225	24,749	0.1278	99.8722	0.9903
7.5	19,545,534	118,241	0.6050	99.3950	0.9892	7.5	19,512,510	118,241	0.6060	99.3940	0.9891
8.5	14,136,096	86,231	0.6100	99.3900	0.9833	8.5	14,126,071	86,231	0.6104	99.3896	0.9831
9.5	11,021,090	34,698	0.3148	99.6852	0.9773	9.5	11,011,065	34,698	0.3151	99.6849	0.9771
10.5	10,629,091	0	0.0000	100.0000	0.9742	10.5	10,619,066	0	0.0000	100.0000	0.9740
11.5	10,629,091	48,451	0.4558	99.5442	0.9742	11.5	10,619,066	48,451	0.4563	99.5437	0.9740
12.5	10,395,549	8,863	0.0853	99.9147	0.9697	12.5	10,385,524	8,863	0.0853	99.9147	0.9695
13.5	10,348,153	0	0.0000	100.0000	0.9689	13.5	10,338,128	0	0.0000	100.0000	0.9687
14.5	9,918,442	7,905	0.0797	99.9203	0.9689	14.5	9,908,417	7,905	0.0798	99.9202	0.9687
15.5	9,807,408	2,257	0.0230	99.9770	0.9681	15.5	9,797,383	2,257	0.0230	99.9770	0.9679
16.5	9,533,472	226,905	2.3801	97.6199	0.9679	16.5	9,523,447	226,905	2.3826	97.6174	0.9677
17.5	7,685,370	10,053	0.1308	99.8692	0.9449	17.5	7,675,345	265	0.0034	99.9966	0.9447
18.5	7,321,743	4,588	0.0627	99.9373	0.9436	18.5	7,321,507	4,588	0.0627	99.9373	0.9446
19.5	6,916,355	52,250	0.7555	99.2445	0.9431	19.5	6,916,119	52,250	0.7555	99.2445	0.9440
20.5	5,574,011	14,704	0.2638	99.7362	0.9359	20.5	5,573,775	14,704	0.2638	99.7362	0.9369
21.5	5,473,504	5,133	0.0938	99.9062	0.9335	21.5	5,473,268	5,133	0.0938	99.9062	0.9344
22.5	5,414,994	59,349	1.0960	98.9040	0.9326	22.5	5,414,758	59,349	1.0961	98.9039	0.9336
23.5	2,636,108	0	0.0000	100.0000	0.9224	23.5	2,635,872	0	0.0000	100.0000	0.9233
24.5	2,480,621	1,805	0.0728	99.9272	0.9224	24.5	2,480,385	1,805	0.0728	99.9272	0.9233
25.5	2,460,793	0	0.0000	100.0000	0.9217	25.5	2,460,557	0	0.0000	100.0000	0.9226
26.5	1,880,043	2,033	0.1081	99.8919	0.9217	26.5	1,879,807	2,033	0.1081	99.8919	0.9226
27.5	1,591,362	5,454	0.3427	99.6573	0.9207	27.5	1,591,362	5,454	0.3427	99.6573	0.9216
28.5	1,585,379	0	0.0000	100.0000	0.9175	28.5	1,585,379	0	0.0000	100.0000	0.9185
29.5	1,423,680	0	0.0000	100.0000	0.9175	29.5	1,423,680	0	0.0000	100.0000	0.9185
30.5	1,279,314	0	0.0000	100.0000	0.9175	30.5	1,279,314	0	0.0000	100.0000	0.9185

31.5	1,279,314	0	0.0000	100.0000	0.9175	31.5	1,279,314	0	0.0000	100.0000	0.9185
32.5	1,258,394	0	0.0000	100.0000	0.9175	32.5	1,258,394	0	0.0000	100.0000	0.9185
33.5	1,258,394	2,086	0.1658	99.8342	0.9175	33.5	1,258,394	2,086	0.1658	99.8342	0.9185
34.5	1,046,483	1,476	0.1411	99.8589	0.9160	34.5	1,046,483	1,476	0.1411	99.8589	0.9170
35.5	1,008,433	0	0.0000	100.0000	0.9147	35.5	1,008,433	0	0.0000	100.0000	0.9157
36.5	995,332	3,378	0.3394	99.6606	0.9147	36.5	995,332	3,378	0.3394	99.6606	0.9157
37.5	888,822	105,986	11.9243	88.0757	0.9116	37.5	888,822	105,986	11.9243	88.0757	0.9126
38.5	782,836	1,339	0.1711	99.8289	0.8029	38.5	782,836	1,339	0.1711	99.8289	0.8037
39.5	781,497	14,727	1.8844	98.1156	0.8015	39.5	781,497	14,727	1.8844	98.1156	0.8024
40.5	766,770	80,948	10.5570	89.4430	0.7864	40.5	766,770	80,948	10.5570	89.4430	0.7873
41.5	685,822	0	0.0000	100.0000	0.7034	41.5	685,822	0	0.0000	100.0000	0.7041
42.5	685,822	10,160	1.4814	98.5186	0.7034	42.5	685,822	10,160	1.4814	98.5186	0.7041
43.5	663,627	23,300	3.5110	96.4890	0.6930	43.5	663,627	23,300	3.5110	96.4890	0.6937
44.5	276,263	0	0.0000	100.0000	0.6687	44.5	276,263	0	0.0000	100.0000	0.6694
45.5	250,375	20,477	8.1787	91.8213	0.6687	45.5	250,375	20,477	8.1787	91.8213	0.6694
46.5	226,241	0	0.0000	100.0000	0.6140	46.5	226,241	0	0.0000	100.0000	0.6146
47.5	163,670	0	0.0000	100.0000	0.6140	47.5	163,670	0	0.0000	100.0000	0.6146
48.5	236	0	0.0000	100.0000	0.6140	48.5	236	0	0.0000	100.0000	0.6146
49.5	236	0	0.0000	100.0000	0.6140	49.5	236	0	0.0000	100.0000	0.6146
50.5	236	0	0.0000	100.0000	0.6140	50.5	236	0	0.0000	100.0000	0.6146
51.5	236	0	0.0000	100.0000	0.6140	51.5	236	0	0.0000	100.0000	0.6146
52.5	236	0	0.0000	100.0000	0.6140	52.5	236	0	0.0000	100.0000	0.6146
53.5	236	0	0.0000	100.0000	0.6140	53.5	236	0	0.0000	100.0000	0.6146
54.5	236	0	0.0000	100.0000	0.6140	54.5	236	0	0.0000	100.0000	0.6146
55.5	236	0	0.0000	100.0000	0.6140	55.5	236	0	0.0000	100.0000	0.6146
56.5	236	0	0.0000	100.0000	0.6140	56.5	236	0	0.0000	100.0000	0.6146
57.5	236	0	0.0000	100.0000	0.6140	57.5	236	0	0.0000	100.0000	0.6146
58.5	236	0	0.0000	100.0000	0.6140	58.5	236	0	0.0000	100.0000	0.6146
59.5	236	0	0.0000	100.0000	0.6140	59.5	236	0	0.0000	100.0000	0.6146
60.5	236	0	0.0000	100.0000	0.6140	60.5	236	0	0.0000	100.0000	0.6146
61.5	236	0	0.0000	100.0000	0.6140	61.5	236	0	0.0000	100.0000	0.6146
62.5	236	0	0.0000	100.0000	0.6140	62.5	236	0	0.0000	100.0000	0.6146
63.5	236	0	0.0000	100.0000	0.6140	63.5	236	0	0.0000	100.0000	0.6146
64.5	236	0	0.0000	100.0000	0.6140	64.5	236	0	0.0000	100.0000	0.6146
65.5	236	0	0.0000	100.0000	0.6140	65.5	236	0	0.0000	100.0000	0.6146
66.5	236	0	0.0000	100.0000	0.6140	66.5	236	0	0.0000	100.0000	0.6146
67.5	236	0	0.0000	100.0000	0.6140	67.5	236	0	0.0000	100.0000	0.6146

Best Fit Curve Results**NJAW WR17090985****Account: 310.00 - Power Generation Eqpmt**

Curve	Life	Sum of Squared Differences
BAND	1948 - 2016	
R3	50.0	412.245
L3	54.0	480.992
R2.5	53.0	510.350
L2	61.0	520.705
S2	54.0	536.155
R4	48.0	543.924
S1.5	56.0	553.857
S3	50.0	609.500
L1.5	66.0	648.542
S1	60.0	655.789
R2	57.0	706.656
L4	49.0	711.260
S0.5	65.0	803.948
L1	74.0	807.893
S0	72.0	993.485
S4	48.0	1,010.388
R1.5	63.0	1,016.587
L0.5	84.0	1,039.101
L0	98.0	1,264.039
R5	46.0	1,265.689
R1	72.0	1,308.977
L5	47.0	1,322.384
S-0.5	86.0	1,346.270
R0.5	89.0	1,545.989
O1	100.0	1,725.426
S5	46.0	1,842.348
O2	100.0	2,036.940
S6	46.0	3,198.204
O3	100.0	5,741.242
SQ	47.0	8,932.630
O4	100.0	14,127.095

Analytical Parameters

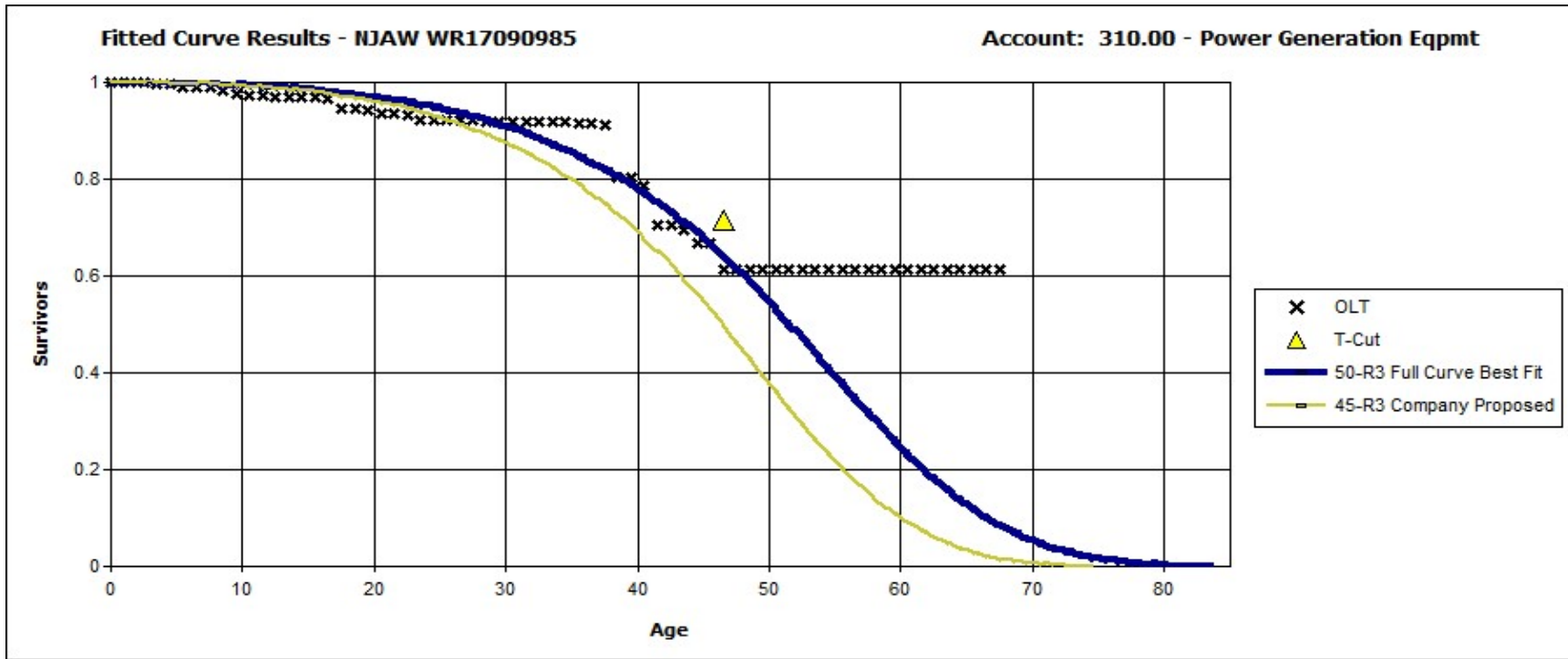
OLT Placement Band: 1948 - 2016
 OLT Experience Band: 1948 - 2016
 Minimum Life Parameter 1
 Maximum Life Parameter 100
 Life Increment Parameter 1
 Max Age (T-Cut): 46.5

Best Fit Curve Results**NJAW WR17090985****Account: 310.00 - Power Generation Eqpmt**

Curve	Life	Sum of Squared Differences
BAND	1976 - 2016	
R3	50.0	414.783
L3	54.0	475.809
R2.5	53.0	515.524
L2	61.0	523.028
R4	48.0	533.482
S2	54.0	533.627
S1.5	56.0	557.716
S3	50.0	601.073
L1.5	67.0	653.941
S1	60.0	661.100
L4	49.0	699.683
R2	57.0	714.018
S0.5	65.0	811.530
L1	74.0	814.788
S4	48.0	988.969
S0	72.0	1,002.213
R1.5	63.0	1,025.976
L0.5	84.0	1,046.775
R5	46.0	1,244.727
L0	98.0	1,272.036
L5	47.0	1,301.247
R1	73.0	1,318.437
S-0.5	86.0	1,354.551
R0.5	89.0	1,553.866
O1	100.0	1,738.914
S5	46.0	1,816.724
O2	100.0	2,060.138
S6	46.0	3,160.237
O3	100.0	5,801.052
SQ	47.0	8,867.870
O4	100.0	14,226.527

Analytical Parameters

OLT Placement Band: 1948 - 2016
 OLT Experience Band: 1976 - 2016
 Minimum Life Parameter 1
 Maximum Life Parameter 100
 Life Increment Parameter 1
 Max Age (T-Cut): 46.5



Analytical Parameters

OLT Placement Band:	1948 - 2016
OLT Experience Band:	1976 - 2016
Minimum Life Parameter:	1
Maximum Life Parameter:	100
Life Increment Parameter:	1
Max Age (T-Cut):	48.0

NJAW WR17090985

310.00 - Power Generation Eqpmt

Calculation of Remaining Life
Based Upon Broad Group/Vintage Group Procedures
Related to Original Cost as of December 31, 2016

Survivor Curve .. IOWA:		50	R3			
<u>Year</u>	<u>Age</u>	<u>Surviving Investment</u>	<u>BG/VG Average</u>		<u>ASL Weights</u>	<u>RL Weights</u>
			<u>Service Life</u>	<u>Remaining Life</u>		
(1)	(2)	(3)	(4)	(5)	(6)=(3)/(4)	(7)=(6)*(5)
2016	0.5	4,058,038	50.00	49.51	81,161	4,017,992
2015	1.5	3,564,802	50.00	48.52	71,296	3,459,554
2014	2.5	798,277	50.00	47.54	15,966	759,061
2013	3.5	1,323,126	50.00	46.57	26,463	1,232,268
2012	4.5	11,818,263	50.00	45.59	236,365	10,776,502
2011	5.5	2,519,378	50.00	44.62	50,388	2,248,406
2010	6.5	472,105	50.00	43.66	9,442	412,202
2009	7.5	30,742	50.00	42.69	615	26,249
2008	8.5	5,291,197	50.00	41.74	105,824	4,416,641
2007	9.5	3,028,775	50.00	40.78	60,576	2,470,449
2006	10.5	357,301	50.00	39.84	7,146	284,664
2005	11.5	0	50.00	38.89	0	0
2004	12.5	185,091	50.00	37.96	3,702	140,512
2003	13.5	38,533	50.00	37.03	771	28,536
2002	14.5	429,711	50.00	36.11	8,594	310,295
2001	15.5	103,129	50.00	35.19	2,063	72,580
2000	16.5	271,678	50.00	34.28	5,434	186,265
1999	17.5	1,621,198	50.00	33.38	32,424	1,082,298
1998	18.5	353,573	50.00	32.49	7,071	229,728
1997	19.5	400,801	50.00	31.60	8,016	253,322
1996	20.5	1,290,093	50.00	30.73	25,802	792,782
1995	21.5	85,803	50.00	29.86	1,716	51,239
1994	22.5	53,377	50.00	29.00	1,068	30,959
1993	23.5	2,719,538	50.00	28.15	54,391	1,531,160
1992	24.5	155,487	50.00	27.31	3,110	84,932
1991	25.5	18,023	50.00	26.48	360	9,546
1990	26.5	580,749	50.00	25.66	11,615	298,064
1989	27.5	286,648	50.00	24.85	5,733	142,478
1988	28.5	529	50.00	24.05	11	254
1987	29.5	161,699	50.00	23.26	3,234	75,238

1986	30.5	144,366	50.00	22.49	2,887	64,927
1985	31.5	0	50.00	21.72	0	0
1984	32.5	20,920	50.00	20.97	418	8,772
1983	33.5	0	50.00	20.22	0	0
1982	34.5	209,825	50.00	19.49	4,197	81,795
1981	35.5	36,573	50.00	18.77	731	13,732
1980	36.5	13,101	50.00	18.07	262	4,734
1979	37.5	103,132	50.00	17.38	2,063	35,840
1978	38.5	0	50.00	16.70	0	0
1977	39.5	0	50.00	16.03	0	0
1976	40.5	0	50.00	15.39	0	0
1975	41.5	0	50.00	14.75	0	0
1974	42.5	0	50.00	14.14	0	0
1973	43.5	12,035	50.00	13.54	241	3,259
1972	44.5	364,063	50.00	12.96	7,281	94,357
1971	45.5	25,888	50.00	12.40	518	6,418
1970	46.5	3,657	50.00	11.85	73	867
1969	47.5	62,571	50.00	11.32	1,251	14,171
1968	48.5	163,434	50.00	10.82	3,269	35,354
1967	49.5	0	50.00	10.33	0	0
1966	50.5	0	50.00	9.86	0	0
1965	51.5	0	50.00	9.41	0	0
1964	52.5	0	50.00	8.98	0	0
1963	53.5	0	50.00	8.56	0	0
1962	54.5	0	50.00	8.17	0	0
1961	55.5	0	50.00	7.79	0	0
1960	56.5	0	50.00	7.43	0	0
1959	57.5	0	50.00	7.08	0	0
1958	58.5	0	50.00	6.75	0	0
1957	59.5	0	50.00	6.44	0	0
1956	60.5	0	50.00	6.13	0	0
1955	61.5	0	50.00	5.84	0	0
1954	62.5	0	50.00	5.56	0	0
1953	63.5	0	50.00	5.28	0	0
1952	64.5	0	50.00	5.01	0	0
1951	65.5	0	50.00	4.75	0	0
1950	66.5	0	50.00	4.49	0	0
1949	67.5	0	50.00	4.23	0	0
1948	68.5	236	50.00	3.97	5	19

43,177,466

863,549 35,788,422

AVERAGE SERVICE LIFE	50.00
AVERAGE REMAINING LIFE	41.44

Observed Life Table Results

NJAW WR17090985

Account: 330.00 - Dist Reservoirs and Standpipes

Age	Exposures	Retiremen	Retirement	Survivor	Cumulative	Age	Exposures	Retirements	Retirement	Survivor	Cumulative	
			Ratio (%)	Ratio (%)	Survivors				Ratio (%)	Ratio (%)	Survivors	
BAND		1889 - 2016				BAND		1976 - 2016				
0	101,886,248	200,843	0.1971	99.8029	1.0000	0	90,654,233	200,843	0.2215	99.7785	1.0000	
0.5	101,670,093	19,575	0.0193	99.9807	0.9980	0.5	90,438,196	19,575	0.0216	99.9784	0.9978	
1.5	91,290,125	63,762	0.0698	99.9302	0.9978	1.5	80,321,271	63,707	0.0793	99.9207	0.9976	
2.5	90,133,147	33,804	0.0375	99.9625	0.9971	2.5	79,579,061	33,804	0.0425	99.9575	0.9968	
3.5	85,124,330	34,999	0.0411	99.9589	0.9968	3.5	74,603,870	32,190	0.0431	99.9569	0.9964	
4.5	84,365,915	78,694	0.0933	99.9067	0.9964	4.5	74,419,798	75,686	0.1017	99.8983	0.9959	
5.5	84,222,570	16,271	0.0193	99.9807	0.9954	5.5	74,866,984	16,111	0.0215	99.9785	0.9949	
6.5	82,362,594	25,191	0.0306	99.9694	0.9952	6.5	73,022,600	24,685	0.0338	99.9662	0.9947	
7.5	80,129,891	147,164	0.1837	99.8163	0.9949	7.5	72,791,006	147,164	0.2022	99.7978	0.9944	
8.5	78,139,332	100,804	0.1290	99.8710	0.9931	8.5	72,280,556	93,409	0.1292	99.8708	0.9924	
9.5	75,768,224	22,713	0.0300	99.9700	0.9918	9.5	70,369,743	17,732	0.0252	99.9748	0.9911	
10.5	75,417,848	4,654	0.0062	99.9938	0.9915	10.5	70,363,836	0	0.0000	100.0000	0.9908	
11.5	74,555,200	246,021	0.3300	99.6700	0.9915	11.5	69,980,011	246,021	0.3516	99.6484	0.9908	
12.5	73,678,547	20,458	0.0278	99.9722	0.9882	12.5	69,527,597	19,302	0.0278	99.9722	0.9873	
13.5	70,266,218	14,252	0.0203	99.9797	0.9879	13.5	66,121,115	11,997	0.0181	99.9819	0.9871	
14.5	68,474,972	49,169	0.0718	99.9282	0.9877	14.5	64,643,773	42,668	0.0660	99.9340	0.9869	
15.5	64,006,818	21,840	0.0341	99.9659	0.9870	15.5	60,278,801	21,840	0.0362	99.9638	0.9862	
16.5	63,961,696	51,933	0.0812	99.9188	0.9867	16.5	60,424,007	47,248	0.0782	99.9218	0.9859	
17.5	61,036,700	100,656	0.1649	99.8351	0.9859	17.5	58,155,391	100,656	0.1731	99.8269	0.9851	
18.5	52,241,084	73,535	0.1408	99.8592	0.9842	18.5	50,172,782	73,535	0.1466	99.8534	0.9834	
19.5	47,987,443	13,735	0.0286	99.9714	0.9829	19.5	46,405,123	13,241	0.0285	99.9715	0.9820	
20.5	47,546,558	1,500,386	3.1556	96.8444	0.9826	20.5	46,188,714	1,500,286	3.2482	96.7518	0.9817	
21.5	45,953,020	16,378	0.0356	99.9644	0.9516	21.5	44,734,337	14,854	0.0332	99.9668	0.9498	
22.5	40,088,955	46,431	0.1158	99.8842	0.9512	22.5	38,941,368	46,431	0.1192	99.8808	0.9495	
23.5	34,296,104	17,328	0.0505	99.9495	0.9501	23.5	33,152,139	17,328	0.0523	99.9477	0.9483	
24.5	29,154,153	284,321	0.9752	99.0248	0.9496	24.5	28,195,645	284,321	1.0084	98.9916	0.9478	
25.5	28,054,595	17,328	0.0618	99.9382	0.9404	25.5	27,096,087	17,328	0.0639	99.9361	0.9383	
26.5	25,116,190	13,624	0.0542	99.9458	0.9398	26.5	24,158,708	13,624	0.0564	99.9436	0.9377	
27.5	24,789,659	58,653	0.2366	99.7634	0.9393	27.5	23,857,116	58,653	0.2459	99.7541	0.9372	
28.5	24,049,689	161,449	0.6713	99.3287	0.9371	28.5	23,122,730	161,449	0.6982	99.3018	0.9349	

29.5	23,190,588	4,295	0.0185	99.9815	0.9308	29.5	22,301,933	3,532	0.0158	99.9842	0.9283
30.5	19,621,370	5,387	0.0275	99.9725	0.9306	30.5	18,733,478	4,958	0.0265	99.9735	0.9282
31.5	17,570,229	5,859	0.0333	99.9667	0.9304	31.5	16,688,366	5,646	0.0338	99.9662	0.9279
32.5	16,881,506	7,993	0.0473	99.9527	0.9300	32.5	15,999,856	7,993	0.0500	99.9500	0.9276
33.5	15,849,872	3,235	0.0204	99.9796	0.9296	33.5	15,084,959	3,235	0.0214	99.9786	0.9272
34.5	14,219,773	8,947	0.0629	99.9371	0.9294	34.5	13,467,926	3,216	0.0239	99.9761	0.9270
35.5	11,708,424	8,984	0.0767	99.9233	0.9288	35.5	11,035,101	3,272	0.0297	99.9703	0.9267
36.5	11,663,286	2,479	0.0213	99.9787	0.9281	36.5	10,995,842	2,282	0.0208	99.9792	0.9265
37.5	11,103,247	31,841	0.2868	99.7132	0.9279	37.5	10,435,999	31,841	0.3051	99.6949	0.9263
38.5	10,982,414	10,971	0.0999	99.9001	0.9253	38.5	10,315,802	10,971	0.1064	99.8936	0.9234
39.5	10,939,394	163,419	1.4939	98.5061	0.9243	39.5	10,280,147	163,419	1.5897	98.4103	0.9225
40.5	10,756,505	6,049	0.0562	99.9438	0.9105	40.5	10,097,423	6,049	0.0599	99.9401	0.9078
41.5	10,750,338	12,320	0.1146	99.8854	0.9100	41.5	10,091,256	12,320	0.1221	99.8779	0.9073
42.5	10,478,425	6,998	0.0668	99.9332	0.9090	42.5	9,819,952	6,998	0.0713	99.9287	0.9061
43.5	10,081,032	14,160	0.1405	99.8595	0.9084	43.5	9,422,708	13,116	0.1392	99.8608	0.9055
44.5	10,057,402	14,921	0.1484	99.8516	0.9071	44.5	9,422,442	7,709	0.0818	99.9182	0.9042
45.5	9,474,006	55,946	0.5905	99.4095	0.9057	45.5	8,923,706	55,946	0.6269	99.3731	0.9035
46.5	8,839,514	734	0.0083	99.9917	0.9004	46.5	8,293,121	734	0.0089	99.9911	0.8978
47.5	8,833,809	903	0.0102	99.9898	0.9003	47.5	8,303,233	903	0.0109	99.9891	0.8978
48.5	6,999,938	10,413	0.1488	99.8512	0.9002	48.5	6,470,066	5,165	0.0798	99.9202	0.8977
49.5	5,533,378	33,879	0.6123	99.3877	0.8989	49.5	5,008,754	4,224	0.0843	99.9157	0.8969
50.5	5,212,893	559	0.0107	99.9893	0.8934	50.5	4,717,924	559	0.0119	99.9881	0.8962
51.5	4,883,190	20,243	0.4145	99.5855	0.8933	51.5	4,388,221	20,110	0.4583	99.5417	0.8961
52.5	4,425,651	26,936	0.6086	99.3914	0.8896	52.5	3,972,845	26,936	0.6780	99.3220	0.8920
53.5	3,982,262	16,165	0.4059	99.5941	0.8842	53.5	3,530,295	11,245	0.3185	99.6815	0.8859
54.5	3,961,406	20,549	0.5187	99.4813	0.8806	54.5	3,518,385	20,549	0.5840	99.4160	0.8831
55.5	3,630,035	1,123	0.0309	99.9691	0.8760	55.5	3,272,587	1,123	0.0343	99.9657	0.8779
56.5	3,533,169	5,368	0.1519	99.8481	0.8757	56.5	3,175,721	924	0.0291	99.9709	0.8776
57.5	3,344,472	3,790	0.1133	99.8867	0.8744	57.5	2,991,468	3,790	0.1267	99.8733	0.8774
58.5	2,691,466	1,501	0.0558	99.9442	0.8734	58.5	2,338,462	1,501	0.0642	99.9358	0.8763
59.5	1,886,837	4,865	0.2578	99.7422	0.8729	59.5	1,548,814	21	0.0013	99.9987	0.8757
60.5	1,412,595	0	0.0000	100.0000	0.8707	60.5	1,079,415	0	0.0000	100.0000	0.8757
61.5	1,190,624	88,015	7.3923	92.6077	0.8707	61.5	971,107	88,015	9.0634	90.9366	0.8757
62.5	965,366	820	0.0849	99.9151	0.8063	62.5	745,849	820	0.1099	99.8901	0.7963
63.5	901,164	0	0.0000	100.0000	0.8056	63.5	684,037	0	0.0000	100.0000	0.7955
64.5	900,189	3,578	0.3975	99.6025	0.8056	64.5	684,062	3,578	0.5230	99.4770	0.7955

65.5	803,517	0	0.0000	100.0000	0.8024	65.5	587,390	0	0.0000	100.0000	0.7913
66.5	803,517	39,071	4.8625	95.1375	0.8024	66.5	717,857	39,071	5.4428	94.5572	0.7913
67.5	764,446	403	0.0527	99.9473	0.7634	67.5	680,585	403	0.0592	99.9408	0.7482
68.5	764,043	0	0.0000	100.0000	0.7630	68.5	680,182	0	0.0000	100.0000	0.7478
69.5	760,259	34,331	4.5157	95.4843	0.7630	69.5	684,368	34,331	5.0164	94.9836	0.7478
70.5	725,928	6,600	0.9092	99.0908	0.7286	70.5	650,073	0	0.0000	100.0000	0.7103
71.5	719,328	12,294	1.7091	98.2909	0.7219	71.5	654,027	469	0.0717	99.9283	0.7103
72.5	701,434	1	0.0001	99.9999	0.7096	72.5	647,958	0	0.0000	100.0000	0.7098
73.5	701,433	0	0.0000	100.0000	0.7096	73.5	647,958	0	0.0000	100.0000	0.7098
74.5	584,696	6,896	1.1795	98.8205	0.7096	74.5	531,221	6,896	1.2982	98.7018	0.7098
75.5	576,000	5	0.0009	99.9991	0.7012	75.5	542,738	5	0.0010	99.9990	0.7006
76.5	515,799	130	0.0252	99.9748	0.7012	76.5	500,537	130	0.0260	99.9740	0.7005
77.5	515,669	14	0.0026	99.9974	0.7010	77.5	500,407	14	0.0027	99.9973	0.7004
78.5	515,655	16	0.0030	99.9970	0.7010	78.5	507,324	16	0.0031	99.9969	0.7003
79.5	515,004	5,738	1.1141	98.8859	0.7010	79.5	506,673	645	0.1272	99.8728	0.7003
80.5	509,266	105	0.0206	99.9794	0.6932	80.5	506,029	105	0.0208	99.9792	0.6994
81.5	508,996	0	0.0000	100.0000	0.6931	81.5	505,984	0	0.0000	100.0000	0.6993
82.5	508,996	159	0.0313	99.9687	0.6931	82.5	508,846	159	0.0313	99.9687	0.6993
83.5	508,837	49	0.0097	99.9903	0.6928	83.5	508,687	49	0.0097	99.9903	0.6991
84.5	508,643	51	0.0100	99.9900	0.6928	84.5	508,493	51	0.0100	99.9900	0.6990
85.5	504,093	0	0.0000	100.0000	0.6927	85.5	503,943	0	0.0000	100.0000	0.6989
86.5	426,816	0	0.0000	100.0000	0.6927	86.5	426,816	0	0.0000	100.0000	0.6989
87.5	423,570	0	0.0000	100.0000	0.6927	87.5	423,570	0	0.0000	100.0000	0.6989
88.5	421,430	819	0.1943	99.8057	0.6927	88.5	421,430	819	0.1943	99.8057	0.6989
89.5	420,062	16,475	3.9219	96.0781	0.6914	89.5	420,062	16,475	3.9219	96.0781	0.6976
90.5	403,587	0	0.0000	100.0000	0.6642	90.5	403,587	0	0.0000	100.0000	0.6702
91.5	403,587	20	0.0049	99.9951	0.6642	91.5	403,587	20	0.0049	99.9951	0.6702
92.5	403,567	0	0.0000	100.0000	0.6642	92.5	403,567	0	0.0000	100.0000	0.6702
93.5	378,174	0	0.0000	100.0000	0.6642	93.5	378,174	0	0.0000	100.0000	0.6702
94.5	377,335	450	0.1194	99.8806	0.6642	94.5	377,335	450	0.1194	99.8806	0.6702
95.5	372,858	0	0.0000	100.0000	0.6634	95.5	372,858	0	0.0000	100.0000	0.6694
96.5	321,616	0	0.0000	100.0000	0.6634	96.5	321,616	0	0.0000	100.0000	0.6694
97.5	321,616	0	0.0000	100.0000	0.6634	97.5	321,616	0	0.0000	100.0000	0.6694
98.5	321,616	0	0.0000	100.0000	0.6634	98.5	321,616	0	0.0000	100.0000	0.6694
99.5	321,616	9	0.0029	99.9971	0.6634	99.5	321,616	9	0.0029	99.9971	0.6694
100.5	306,647	-5	-0.0015	100.0015	0.6634	100.5	306,647	-5	-0.0015	100.0015	0.6694

101.5	306,651	2,260	0.7370	99.2630	0.6634	101.5	306,651	2,260	0.7370	99.2630	0.6694
102.5	192,896	1,000	0.5184	99.4816	0.6585	102.5	192,896	1,000	0.5184	99.4816	0.6644
103.5	191,896	0	0.0000	100.0000	0.6551	103.5	191,896	0	0.0000	100.0000	0.6610
104.5	191,896	0	0.0000	100.0000	0.6551	104.5	191,896	0	0.0000	100.0000	0.6610
105.5	191,896	0	0.0000	100.0000	0.6551	105.5	191,896	0	0.0000	100.0000	0.6610
106.5	191,896	0	0.0000	100.0000	0.6551	106.5	191,896	0	0.0000	100.0000	0.6610
107.5	61,429	7,970	12.9743	87.0257	0.6551	107.5	61,429	7,970	12.9743	87.0257	0.6610
108.5	51,664	0	0.0000	100.0000	0.5701	108.5	51,664	0	0.0000	100.0000	0.5752
109.5	51,664	35	0.0685	99.9315	0.5701	109.5	51,664	35	0.0685	99.9315	0.5752
110.5	51,628	4,600	8.9098	91.0902	0.5697	110.5	51,628	4,600	8.9098	91.0902	0.5748
111.5	47,028	0	0.0000	100.0000	0.5190	111.5	47,028	0	0.0000	100.0000	0.5236
112.5	43,075	69	0.1595	99.8405	0.5190	112.5	43,075	69	0.1595	99.8405	0.5236
113.5	43,006	14	0.0319	99.9681	0.5181	113.5	43,006	14	0.0319	99.9681	0.5228
114.5	42,992	0	0.0000	100.0000	0.5180	114.5	42,992	0	0.0000	100.0000	0.5226
115.5	42,992	0	0.0000	100.0000	0.5180	115.5	42,992	0	0.0000	100.0000	0.5226
116.5	27,379	0	0.0000	100.0000	0.5180	116.5	27,379	0	0.0000	100.0000	0.5226
117.5	9,379	0	0.0000	100.0000	0.5180	117.5	9,379	0	0.0000	100.0000	0.5226
118.5	9,379	0	0.0000	100.0000	0.5180	118.5	9,379	0	0.0000	100.0000	0.5226
119.5	3,155	0	0.0000	100.0000	0.5180	119.5	3,155	0	0.0000	100.0000	0.5226
120.5	3,155	0	0.0000	100.0000	0.5180	120.5	3,155	0	0.0000	100.0000	0.5226
121.5	3,155	0	0.0000	100.0000	0.5180	121.5	3,155	0	0.0000	100.0000	0.5226
122.5	3,012	0	0.0000	100.0000	0.5180	122.5	3,012	0	0.0000	100.0000	0.5226
123.5	150	0	0.0000	100.0000	0.5180	123.5	150	0	0.0000	100.0000	0.5226
124.5	150	0	0.0000	100.0000	0.5180	124.5	150	0	0.0000	100.0000	0.5226
125.5	150	0	0.0000	100.0000	0.5180	125.5	150	0	0.0000	100.0000	0.5226
126.5	150	0	0.0000	100.0000	0.5180	126.5	150	0	0.0000	100.0000	0.5226

Best Fit Curve Results

NJAW WR17090985

Account: 330.00 - Dist Reservoirs and Standpipes

Curve	Life	Sum of Squared Differences
BAND	1889 - 2016	
S0	123.0	788.839
R1	119.0	1,006.929
R1.5	112.0	1,119.865
L1	125.0	1,155.808
S0.5	117.0	1,166.907
S-0.5	125.0	1,421.612
R0.5	125.0	1,586.193
L1.5	123.0	1,714.255
R2	108.0	1,914.073
L0.5	125.0	2,093.062
S1	113.0	2,096.964
L2	119.0	3,354.317
R2.5	106.0	3,422.941
S1.5	110.0	3,429.295
O1	125.0	4,016.383
L0	125.0	4,516.747
S2	108.0	5,403.015
R3	105.0	5,780.439
L3	112.0	8,076.124
O2	125.0	8,321.048
S3	106.0	10,280.381
R4	104.0	11,552.027
L4	108.0	14,210.672
S4	105.0	18,137.511
R5	105.0	21,784.964
L5	107.0	21,923.098
S5	106.0	26,442.175
O3	125.0	32,662.878
S6	107.0	33,960.895
SQ	111.0	51,262.877
O4	125.0	69,087.868

Analytical Parameters

OLT Placement Band: 1889 - 2016
 OLT Experience Band: 1889 - 2016
 Minimum Life Parameter: 1
 Maximum Life Parameter: 125
 Life Increment Parameter: 1
 Max Age (T-Cut): 111.5

Best Fit Curve Results

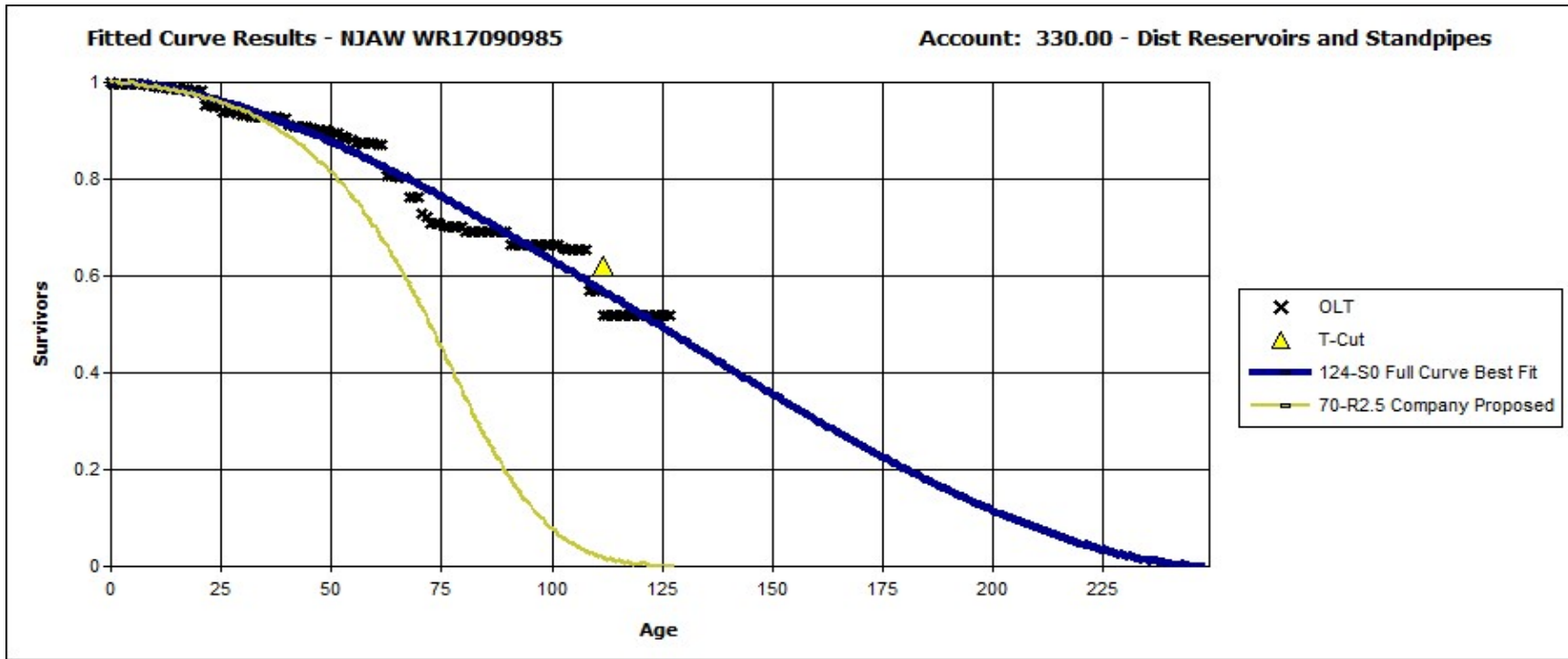
NJAW WR17090985

Account: 330.00 - Dist Reservoirs and Standpipes

Curve	Life	Sum of Squared Differences
BAND	1976 - 2016	
S0	124.0	937.498
R1	119.0	1,093.896
R1.5	113.0	1,288.092
S0.5	118.0	1,392.847
L1	125.0	1,412.780
S-0.5	125.0	1,520.399
R0.5	125.0	1,631.883
L1.5	124.0	2,011.470
R2	109.0	2,170.110
L0.5	125.0	2,318.425
S1	114.0	2,408.756
R2.5	107.0	3,749.404
L2	119.0	3,753.886
S1.5	111.0	3,805.898
O1	125.0	4,076.946
L0	125.0	4,710.498
S2	109.0	5,854.460
R3	105.0	6,167.809
O2	125.0	8,467.685
L3	112.0	8,605.045
S3	106.0	10,822.173
R4	104.0	11,994.655
L4	108.0	14,697.587
S4	106.0	18,648.974
R5	105.0	22,167.943
L5	107.0	22,330.252
S5	106.0	26,771.977
O3	125.0	32,910.033
S6	108.0	33,989.915
SQ	111.0	50,671.831
O4	125.0	69,346.408

Analytical Parameters

OLT Placement Band: 1889 - 2016
 OLT Experience Band: 1976 - 2016
 Minimum Life Parameter: 1
 Maximum Life Parameter: 125
 Life Increment Parameter: 1
 Max Age (T-Cut): 111.5



Analytical Parameters

OLT Placement Band: 1889 - 2016
 OLT Experience Band: 1889 - 2016
 Minimum Life Parameter: 1
 Maximum Life Parameter: 125
 Life Increment Parameter: 1
 Max Age (T-Cut): 113.0

NJAW WR17090985

330.00 - Dist Reservoirs and Standpipes

Calculation of Remaining Life
Based Upon Broad Group/Vintage Group Procedures
Related to Original Cost as of December 31, 2016

Survivor Curve .. IOWA: 124 S0

Year	Age	Surviving Investment	BG/VG Average		ASL Weights	RL Weights
			Service Life	Remaining Life		
(1)	(2)	(3)	(4)	(5)	(6)=(3)/(4)	(7)=(6)*(5)
2016	0.5	15,312	124.00	123.50	123	15,251
2015	1.5	10,360,393	124.00	122.53	83,552	10,237,829
2014	2.5	1,093,216	124.00	121.58	8,816	1,071,904
2013	3.5	4,975,013	124.00	120.65	40,121	4,840,770
2012	4.5	723,416	124.00	119.74	5,834	698,567
2011	5.5	64,651	124.00	118.84	521	61,961
2010	6.5	1,843,704	124.00	117.95	14,869	1,753,806
2009	7.5	2,207,511	124.00	117.08	17,803	2,084,300
2008	8.5	1,843,395	124.00	116.22	14,866	1,727,711
2007	9.5	2,270,304	124.00	115.37	18,309	2,112,281
2006	10.5	327,663	124.00	114.53	2,642	302,639
2005	11.5	857,994	124.00	113.70	6,919	786,729
2004	12.5	630,632	124.00	112.88	5,086	574,081
2003	13.5	3,391,871	124.00	112.07	27,354	3,065,571
2002	14.5	1,776,994	124.00	111.27	14,331	1,594,590
2001	15.5	4,418,985	124.00	110.48	35,637	3,937,184
2000	16.5	23,282	124.00	109.70	188	20,597
1999	17.5	2,873,063	124.00	108.92	23,170	2,523,689
1998	18.5	8,694,960	124.00	108.15	70,121	7,583,835
1997	19.5	4,180,106	124.00	107.40	33,711	3,620,365
1996	20.5	427,151	124.00	106.64	3,445	367,363
1995	21.5	93,152	124.00	105.90	751	79,554
1994	22.5	5,847,687	124.00	105.16	47,159	4,959,255
1993	23.5	5,746,420	124.00	104.43	46,342	4,839,477
1992	24.5	5,124,623	124.00	103.71	41,328	4,285,914
1991	25.5	815,238	124.00	102.99	6,574	677,096
1990	26.5	2,921,077	124.00	102.28	23,557	2,409,332
1989	27.5	312,907	124.00	101.57	2,523	256,307
1988	28.5	681,317	124.00	100.87	5,494	554,228
1987	29.5	697,652	124.00	100.18	5,626	563,615
1986	30.5	3,564,923	124.00	99.49	28,749	2,860,230
1985	31.5	2,045,754	124.00	98.81	16,498	1,630,093
1984	32.5	682,864	124.00	98.13	5,507	540,384
1983	33.5	1,023,641	124.00	97.45	8,255	804,500

1982	34.5	1,626,865	124.00	96.79	13,120	1,269,838
1981	35.5	2,502,401	124.00	96.13	20,181	1,939,871
1980	36.5	36,154	124.00	95.47	292	27,835
1979	37.5	557,561	124.00	94.81	4,496	426,330
1978	38.5	88,991	124.00	94.17	718	67,580
1977	39.5	32,049	124.00	93.52	258	24,172
1976	40.5	19,471	124.00	92.88	157	14,585
1975	41.5	118	124.00	92.25	1	88
1974	42.5	259,593	124.00	91.62	2,093	191,801
1973	43.5	390,395	124.00	90.99	3,148	286,470
1972	44.5	9,470	124.00	90.37	76	6,902
1971	45.5	568,476	124.00	89.75	4,584	411,457
1970	46.5	578,546	124.00	89.14	4,666	415,878
1969	47.5	4,970	124.00	88.52	40	3,548
1968	48.5	1,832,969	124.00	87.92	14,782	1,299,589
1967	49.5	1,456,146	124.00	87.31	11,743	1,025,332
1966	50.5	286,606	124.00	86.71	2,311	200,425
1965	51.5	329,144	124.00	86.12	2,654	228,590
1964	52.5	437,296	124.00	85.52	3,527	301,610
1963	53.5	416,454	124.00	84.94	3,359	285,254
1962	54.5	4,691	124.00	84.35	38	3,191
1961	55.5	310,822	124.00	83.77	2,507	209,971
1960	56.5	95,743	124.00	83.19	772	64,230
1959	57.5	183,329	124.00	82.61	1,478	122,136
1958	58.5	649,216	124.00	82.04	5,236	429,512
1957	59.5	803,128	124.00	81.47	6,477	527,641
1956	60.5	469,378	124.00	80.90	3,785	306,227
1955	61.5	221,971	124.00	80.33	1,790	143,806
1954	62.5	137,243	124.00	79.77	1,107	88,293
1953	63.5	63,382	124.00	79.21	511	40,490
1952	64.5	975	124.00	78.66	8	618
1951	65.5	93,095	124.00	78.10	751	58,638
1950	66.5	0	124.00	77.55	0	0
1949	67.5	0	124.00	77.01	0	0
1948	68.5	0	124.00	76.46	0	0
1947	69.5	3,784	124.00	75.92	31	2,317
1946	70.5	0	124.00	75.38	0	0
1945	71.5	0	124.00	74.84	0	0
1944	72.5	5,600	124.00	74.30	45	3,356
1943	73.5	0	124.00	73.77	0	0
1942	74.5	116,737	124.00	73.24	941	68,951
1941	75.5	1,800	124.00	72.71	15	1,055
1940	76.5	60,196	124.00	72.19	485	35,043
1939	77.5	0	124.00	71.66	0	0
1938	78.5	0	124.00	71.14	0	0
1937	79.5	636	124.00	70.62	5	362
1936	80.5	0	124.00	70.10	0	0
1935	81.5	165	124.00	69.59	1	92
1934	82.5	0	124.00	69.08	0	0
1933	83.5	0	124.00	68.57	0	0
1932	84.5	145	124.00	68.06	1	79

1931	85.5	4,500	124.00	67.55	36	2,451
1930	86.5	77,276	124.00	67.05	623	41,782
1929	87.5	3,246	124.00	66.54	26	1,742
1928	88.5	2,140	124.00	66.04	17	1,140
1927	89.5	550	124.00	65.54	4	291
1926	90.5	0	124.00	65.04	0	0
1925	91.5	0	124.00	64.55	0	0
1924	92.5	0	124.00	64.06	0	0
1923	93.5	25,393	124.00	63.56	205	13,017
1922	94.5	839	124.00	63.07	7	427
1921	95.5	4,027	124.00	62.58	32	2,032
1920	96.5	51,241	124.00	62.10	413	25,661
1919	97.5	0	124.00	61.61	0	0
1918	98.5	0	124.00	61.13	0	0
1917	99.5	0	124.00	60.65	0	0
1916	100.5	14,960	124.00	60.17	121	7,259
1915	101.5	0	124.00	59.69	0	0
1914	102.5	111,495	124.00	59.21	899	53,240
1913	103.5	0	124.00	58.74	0	0
1912	104.5	0	124.00	58.26	0	0
1911	105.5	0	124.00	57.79	0	0
1910	106.5	0	124.00	57.32	0	0
1909	107.5	130,467	124.00	56.85	1,052	59,813
1908	108.5	1,795	124.00	56.38	14	816
1907	109.5	0	124.00	55.91	0	0
1906	110.5	0	124.00	55.45	0	0
1905	111.5	0	124.00	54.98	0	0
1904	112.5	3,954	124.00	54.52	32	1,738
1903	113.5	0	124.00	54.06	0	0
1902	114.5	0	124.00	53.60	0	0
1901	115.5	0	124.00	53.14	0	0
1900	116.5	15,613	124.00	52.69	126	6,634
1899	117.5	18,000	124.00	52.23	145	7,582
1898	118.5	0	124.00	51.78	0	0
1897	119.5	6,224	124.00	51.32	50	2,576
1896	120.5	0	124.00	50.87	0	0
1895	121.5	0	124.00	50.42	0	0
1894	122.5	143	124.00	49.97	1	58
1893	123.5	2,862	124.00	49.52	23	1,143
1892	124.5	0	124.00	49.07	0	0
1891	125.5	0	124.00	48.63	0	0
1890	126.5	0	124.00	48.18	0	0
1889	127.5	150	124.00	47.74	1	58

97,687,455

787,802 84,203,630

AVERAGE SERVICE LIFE	124.00
AVERAGE REMAINING LIFE	106.88

Observed Life Table Results

NJAW WR17090985

Account: 334.00 - Meter Installs and Vaults

Age	Exposures	Retirements	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors	Age	Exposures	Retirement	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors	Age	Exposures	Retirements	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors	
1892 - 2016						1976 - 2016						2007 - 2016						
BAND						BAND						BAND						
0	187,172,129	758	0.0004	99.9996	1.0000	0	184,549,515	758	0.0004	99.9996	1.0000	0	101,408,803	758	0.0007	99.9993	1.0000	
0.5	174,977,605	47,747	0.0273	99.9727	1.0000	0.5	172,457,194	47,747	0.0277	99.9723	1.0000	0.5	107,655,752	47,747	0.0444	99.9556	1.0000	
1.5	162,655,810	11,678	0.0072	99.9928	0.9997	1.5	160,205,019	11,678	0.0073	99.9927	0.9997	1.5	95,499,980	11,678	0.0122	99.9878	0.9995	
2.5	148,886,819	269,495	0.1810	99.8190	0.9997	2.5	146,591,107	269,495	0.1838	99.8162	0.9996	2.5	83,496,979	269,495	0.3228	99.6772	0.9994	
3.5	131,372,834	490,264	0.3732	99.6268	0.9978	3.5	129,189,751	490,264	0.3795	99.6205	0.9978	3.5	73,109,669	490,264	0.6706	99.3294	0.9962	
4.5	123,976,809	118,373	0.0955	99.9045	0.9941	4.5	121,892,844	118,373	0.0971	99.9029	0.9940	4.5	65,728,199	118,373	0.1801	99.8199	0.9895	
5.5	116,939,091	126,990	0.1086	99.8914	0.9932	5.5	114,942,032	126,990	0.1105	99.8895	0.9931	5.5	58,692,270	126,990	0.2164	99.7836	0.9877	
6.5	110,430,429	267,981	0.2427	99.7573	0.9921	6.5	108,515,830	267,981	0.2470	99.7530	0.9920	6.5	52,192,405	267,981	0.5134	99.4866	0.9856	
7.5	94,315,107	625,935	0.6637	99.3363	0.9897	7.5	92,473,703	625,935	0.6769	99.3231	0.9895	7.5	39,295,142	625,935	1.5929	98.4071	0.9805	
8.5	88,348,390	650,836	0.7367	99.2633	0.9831	8.5	86,569,621	650,836	0.7518	99.2482	0.9828	8.5	38,879,115	650,836	1.6740	98.3260	0.9649	
9.5	85,128,129	269,441	0.3165	99.6835	0.9759	9.5	83,437,435	269,441	0.3229	99.6771	0.9754	9.5	41,200,450	269,441	0.6540	99.3460	0.9488	
10.5	66,454,095	681,205	1.0251	98.9749	0.9728	10.5	65,049,362	681,205	1.0472	98.9528	0.9723	10.5	26,616,239	681,205	2.5594	97.4406	0.9426	
11.5	65,615,701	51,864	0.0790	99.9210	0.9628	11.5	64,289,767	51,864	0.0807	99.9193	0.9621	11.5	32,841,674	51,864	0.1579	99.8421	0.9184	
12.5	64,065,162	18,097	0.0282	99.9718	0.9621	12.5	62,815,605	18,097	0.0288	99.9712	0.9613	12.5	35,230,969	18,097	0.0514	99.9486	0.9170	
13.5	57,491,888	744,299	1.2946	98.7054	0.9618	13.5	56,324,044	744,299	1.3215	98.6785	0.9610	13.5	32,761,602	744,299	2.2719	97.7281	0.9165	
14.5	56,736,469	562,733	0.9918	99.0082	0.9493	14.5	55,654,563	562,733	1.0111	98.9889	0.9483	14.5	35,150,865	562,733	1.6009	98.3991	0.8957	
15.5	56,172,005	1,029,761	1.8332	98.1668	0.9399	15.5	55,160,518	1,029,761	1.8668	98.1332	0.9387	15.5	35,848,490	1,029,761	2.8725	97.1275	0.8814	
16.5	55,137,685	65,397	0.1186	99.8814	0.9227	16.5	54,180,815	65,397	0.1207	99.8793	0.9212	16.5	37,817,639	65,397	0.1729	99.8271	0.8560	
17.5	51,875,493	6,065	0.0117	99.9883	0.9216	17.5	50,973,179	6,065	0.0119	99.9881	0.9201	17.5	37,108,284	6,065	0.0163	99.9837	0.8546	
18.5	47,125,542	20,364	0.0432	99.9568	0.9215	18.5	46,296,646	20,364	0.0440	99.9560	0.9200	18.5	34,873,583	20,364	0.0584	99.9416	0.8544	
19.5	41,566,539	16,727	0.0402	99.9598	0.9211	19.5	40,811,937	16,727	0.0410	99.9590	0.9196	19.5	31,573,747	16,727	0.0530	99.9470	0.8539	
20.5	37,478,229	25,583	0.0683	99.9317	0.9207	20.5	36,796,126	25,583	0.0695	99.9305	0.9192	20.5	29,274,582	25,583	0.0874	99.9126	0.8535	
21.5	30,407,774	406,129	1.3356	98.6644	0.9201	21.5	29,792,914	406,129	1.3632	98.6368	0.9186	21.5	23,382,819	406,129	1.7369	98.2631	0.8527	
22.5	27,252,971	7,761	0.0285	99.9715	0.9078	22.5	26,680,862	7,761	0.0291	99.9709	0.9061	22.5	21,204,602	7,761	0.0366	99.9634	0.8379	
23.5	23,866,904	128,089	0.5367	99.4633	0.9075	23.5	23,348,558	128,089	0.5486	99.4514	0.9058	23.5	18,769,391	128,089	0.6824	99.3176	0.8376	
24.5	21,034,544	19,611	0.0932	99.9068	0.9027	24.5	20,567,960	19,611	0.0953	99.9047	0.9008	24.5	16,409,003	19,611	0.1195	99.8805	0.8319	
25.5	19,760,144	16,177	0.0819	99.9181	0.9018	25.5	19,353,176	16,177	0.0836	99.9164	0.9000	25.5	15,540,648	16,177	0.1041	99.8959	0.8309	
26.5	16,761,284	8,416	0.0502	99.9498	0.9011	26.5	16,385,490	8,416	0.0514	99.9486	0.8992	26.5	12,903,074	8,416	0.0652	99.9348	0.8300	
27.5	14,204,354	41,655	0.2933	99.7067	0.9006	27.5	13,861,148	41,655	0.3005	99.6995	0.8988	27.5	10,655,650	41,655	0.3909	99.6091	0.8295	
28.5	11,694,472	106,038	0.9067	99.0933	0.8980	28.5	11,374,289	106,038	0.9323	99.0677	0.8961	28.5	8,457,143	106,038	1.2538	98.7462	0.8262	
29.5	9,735,223	46,108	0.4736	99.5264	0.8898	29.5	9,431,252	46,108	0.4889	99.5111	0.8877	29.5	6,775,282	46,108	0.6805	99.3195	0.8159	
30.5	8,008,822	1,346	0.0168	99.9832	0.8856	30.5	7,709,576	1,346	0.0175	99.9825	0.8834	30.5	5,386,208	1,346	0.0250	99.9750	0.8103	
31.5	6,830,845	85,247	1.2480	98.7520	0.8855	31.5	6,534,569	85,247	1.3046	98.6954	0.8832	31.5	4,310,434	85,247	1.9777	98.0223	0.8101	
32.5	5,827,072	37,249	0.6392	99.3608	0.8744	32.5	5,535,844	37,249	0.6729	99.3271	0.8717	32.5	3,376,280	37,249	1.1033	98.8967	0.7941	
33.5	4,971,879	37,124	0.7467	99.2533	0.8688	33.5	4,690,481	37,124	0.7915	99.2085	0.8658	33.5	2,676,167	37,124	1.3872	98.6128	0.7853	
34.5	4,550,834	61	0.0013	99.9987	0.8624	34.5	4,284,453	61	0.0014	99.9986	0.8590	34.5	2,367,751	61	0.0026	99.9974	0.7745	
35.5	4,157,664	21,823	0.5249	99.4751	0.8623	35.5	3,903,987	21,823	0.5590	99.4410	0.8590	35.5	2,073,698	21,823	1.0524	98.9476	0.7744	
36.5	3,809,759	6,458	0.1695	99.8305	0.8578	36.5	3,565,479	6,458	0.1811	99.8189	0.8542	36.5	1,812,700	6,458	0.3563	99.6437	0.7663	
37.5	3,522,705	2,441	0.0693	99.9307	0.8564	37.5	3,286,009	2,441	0.0743	99.9257	0.8526	37.5	1,608,106	2,441	0.1518	99.8482	0.7636	
38.5	3,225,655	14,281	0.4427	99.5573	0.8558	38.5	3,000,412	14,281	0.4760	99.5240	0.8520	38.5	1,384,252	14,281	1.0317	98.9683	0.7624	
39.5	2,936,843	2,762	0.0940	99.9060	0.8520	39.5	2,721,130	2,762	0.1015	99.8985	0.8479	39.5	1,158,074	2,762	0.2385	99.7615	0.7545	
40.5	2,599,283	9,973	0.3837	99.6163	0.8512	40.5	2,387,957	9,973	0.4177	99.5823	0.8471	40.5	908,588	9,973	1.0977	98.9023	0.7527	
41.5	2,498,566	12,374	0.4952	99.5048	0.8479	41.5	2,292,117	12,374	0.5398	99.4602	0.8435	41.5	1,093,833	12,374	1.1312	98.8688	0.7445	
42.5	2,419,173	748	0.0309	99.9691	0.8437	42.5	2,216,732	748	0.0338	99.9662	0.8390	42.5	1,093,240	748	0.0684	99.9316	0.7360	
43.5	2,263,627	17,656	0.7800	99.2200	0.8435	43.5	2,068,459	17,656	0.8536	99.1464	0.8387	43.5	1,014,071	17,656	1.7411	98.2589	0.7355	
44.5	2,137,921	9,239	0.4322	99.5678	0.8369	44.5	1,983,571	9,239	0.4658	99.5342	0.8315	44.5	970,078	9,239	0.9524	99.0476	0.7227	
45.5	2,036,986	5,570	0.2734	99.7266	0.8333	45.5	1,896,078	5,570	0.2938	99.7062	0.8277	45.5	955,081	5,570	0.5832	99.4168	0.7159	
46.5	1,950,682	5,650	0.2896	99.7104	0.8310	46.5	1,826,636	5,650	0.3093	99.6907	0.8252	46.5	939,196	5,650	0.6016	99.3984	0.7117	

47.5	1,864,677	6,511	0.3492	99.6508	0.8286	47.5	1,759,125	6,511	0.3701	99.6299	0.8227	47.5	907,808	6,511	0.7172	99.2828	0.7074
48.5	1,788,086	7,550	0.4222	99.5778	0.8257	48.5	1,703,870	7,550	0.4431	99.5569	0.8196	48.5	885,772	7,550	0.8523	99.1477	0.7023
49.5	1,728,828	8,602	0.4976	99.5024	0.8222	49.5	1,665,231	8,602	0.5166	99.4834	0.8160	49.5	899,932	8,602	0.9558	99.0442	0.6963
50.5	1,642,103	20,577	1.2531	98.7469	0.8181	50.5	1,598,583	20,577	1.2872	98.7128	0.8118	50.5	887,501	20,577	2.3185	97.6815	0.6897
51.5	1,358,404	11,577	0.8522	99.1478	0.8079	51.5	1,326,110	11,577	0.8730	99.1270	0.8013	51.5	676,301	11,577	1.7118	98.2882	0.6737
52.5	1,283,431	8,384	0.6533	99.3467	0.8010	52.5	1,259,578	8,384	0.6656	99.3344	0.7943	52.5	668,570	8,384	1.2541	98.7459	0.6622
53.5	1,211,023	12,400	1.0239	98.9761	0.7957	53.5	1,193,155	12,400	1.0393	98.9607	0.7890	53.5	638,914	12,400	1.9408	98.0592	0.6539
54.5	1,124,454	7,593	0.6752	99.3248	0.7876	54.5	1,110,704	7,593	0.6836	99.3164	0.7808	54.5	606,108	7,593	1.2527	98.7473	0.6412
55.5	1,041,034	3,902	0.3748	99.6252	0.7823	55.5	1,029,548	3,902	0.3790	99.6210	0.7755	55.5	574,450	3,902	0.6792	99.3208	0.6331
56.5	980,371	9,637	0.9830	99.0170	0.7793	56.5	970,909	9,637	0.9926	99.0074	0.7726	56.5	573,404	9,637	1.6807	98.3193	0.6288
57.5	931,214	17,463	1.8753	98.1247	0.7717	57.5	923,169	17,463	1.8916	98.1084	0.7649	57.5	555,420	17,463	3.1441	96.8559	0.6183
58.5	864,144	14,834	1.7166	98.2834	0.7572	58.5	857,171	14,834	1.7306	98.2694	0.7504	58.5	520,939	14,834	2.8476	97.1524	0.5988
59.5	784,556	15,472	1.9721	98.0279	0.7442	59.5	778,432	15,472	1.9876	98.0124	0.7374	59.5	464,372	15,472	3.3318	96.6682	0.5818
60.5	700,160	35,021	5.0019	94.9981	0.7295	60.5	694,672	35,021	5.0414	94.9586	0.7228	60.5	396,189	35,021	8.8396	91.1604	0.5624
61.5	610,041	34,188	5.6042	94.3958	0.6930	61.5	605,092	34,188	5.6501	94.3499	0.6863	61.5	310,795	34,188	11.0002	88.9998	0.5127
62.5	520,505	15,301	2.9396	97.0604	0.6542	62.5	516,124	15,301	2.9645	97.0355	0.6476	62.5	224,230	15,301	6.8236	93.1764	0.4563
63.5	477,695	16,075	3.3650	96.6350	0.6350	63.5	473,785	16,075	3.3928	96.6072	0.6284	63.5	186,468	16,075	8.6206	91.3794	0.4251
64.5	436,243	16,414	3.7625	96.2375	0.6136	64.5	432,877	16,414	3.7918	96.2082	0.6071	64.5	154,845	16,414	10.6002	89.3998	0.3885
65.5	404,123	3,482	0.8617	99.1383	0.5905	65.5	400,862	3,482	0.8687	99.1313	0.5840	65.5	137,742	3,482	2.5282	97.4718	0.3473
66.5	373,738	1,251	0.3348	99.6652	0.5854	66.5	370,600	1,251	0.3376	99.6624	0.5790	66.5	120,061	1,251	1.0422	98.9578	0.3385
67.5	364,018	156	0.0428	99.9572	0.5835	67.5	361,049	156	0.0432	99.9568	0.5770	67.5	119,739	156	0.1301	99.8699	0.3350
68.5	335,020	972	0.2900	99.7100	0.5832	68.5	332,206	972	0.2925	99.7075	0.5768	68.5	98,324	972	0.9883	99.0117	0.3346
69.5	315,240	495	0.1570	99.8430	0.5815	69.5	312,425	495	0.1585	99.8415	0.5751	69.5	89,996	495	0.5501	99.4499	0.3313
70.5	302,620	1,402	0.4633	99.5367	0.5806	70.5	299,885	1,402	0.4675	99.5325	0.5742	70.5	86,908	1,402	1.6133	98.3867	0.3294
71.5	297,080	2,064	0.6949	99.3051	0.5779	71.5	294,427	2,064	0.7011	99.2989	0.5715	71.5	85,755	2,064	2.4072	97.5928	0.3241
72.5	292,721	774	0.2644	99.7356	0.5739	72.5	290,204	774	0.2667	99.7333	0.5675	72.5	86,272	774	0.8970	99.1030	0.3163
73.5	287,477	723	0.2516	99.7484	0.5724	73.5	285,004	723	0.2538	99.7462	0.5660	73.5	85,036	723	0.8507	99.1493	0.3135
74.5	277,411	2,159	0.7782	99.2218	0.5709	74.5	274,997	2,159	0.7850	99.2150	0.5645	74.5	82,242	2,159	2.6250	97.3750	0.3108
75.5	261,342	4,917	1.8816	98.1184	0.5665	75.5	261,213	4,917	1.8825	98.1175	0.5601	75.5	106,992	4,917	4.5960	95.4040	0.3027
76.5	247,851	875	0.3530	99.6470	0.5558	76.5	247,771	875	0.3531	99.6469	0.5495	76.5	106,943	875	0.8182	99.1818	0.2888
77.5	238,924	620	0.2594	99.7406	0.5539	77.5	238,883	620	0.2594	99.7406	0.5476	77.5	114,878	620	0.5395	99.4605	0.2864
78.5	231,394	2,814	1.2159	98.7841	0.5524	78.5	231,367	2,814	1.2161	98.7839	0.5462	78.5	125,842	2,814	2.2358	97.7642	0.2848
79.5	219,237	14,223	6.4876	93.5124	0.5457	79.5	219,221	14,223	6.4880	93.5120	0.5395	79.5	135,021	14,223	10.5341	89.4659	0.2785
80.5	197,664	10,948	5.5387	94.4613	0.5103	80.5	197,651	10,948	5.5390	94.4610	0.5045	80.5	134,067	10,948	8.1661	91.8339	0.2491
81.5	183,317	12,064	6.5808	93.4192	0.4821	81.5	183,309	12,064	6.5811	93.4189	0.4766	81.5	139,797	12,064	8.6295	91.3705	0.2288
82.5	166,888	4,020	2.4087	97.5913	0.4503	82.5	166,885	4,020	2.4087	97.5913	0.4452	82.5	134,593	4,020	2.9867	97.0133	0.2091
83.5	159,040	309	0.1944	99.8056	0.4395	83.5	159,040	309	0.1944	99.8056	0.4345	83.5	135,187	309	0.2287	99.7713	0.2028
84.5	152,414	4,478	2.9381	97.0619	0.4386	84.5	152,414	4,478	2.9381	97.0619	0.4337	84.5	134,545	4,478	3.3283	96.6717	0.2023
85.5	125,692	2,093	1.6654	98.3346	0.4257	85.5	125,692	2,093	1.6654	98.3346	0.4209	85.5	111,942	2,093	1.8699	98.1301	0.1956
86.5	112,984	733	0.6489	99.3511	0.4187	86.5	112,984	733	0.6489	99.3511	0.4139	86.5	101,499	733	0.7223	99.2777	0.1920
87.5	99,983	2,923	2.9233	97.0767	0.4159	87.5	99,983	2,923	2.9233	97.0767	0.4112	87.5	90,521	2,923	3.2289	96.7711	0.1906
88.5	86,388	2,618	3.0305	96.9695	0.4038	88.5	86,388	2,618	3.0305	96.9695	0.3992	88.5	78,343	2,618	3.3417	96.6583	0.1844
89.5	72,189	1,341	1.8583	98.1417	0.3915	89.5	72,189	1,341	1.8583	98.1417	0.3871	89.5	65,216	1,341	2.0570	97.9430	0.1782
90.5	55,934	3,259	5.8256	94.1744	0.3843	90.5	55,934	3,259	5.8256	94.1744	0.3799	90.5	49,811	3,259	6.5418	93.4582	0.1746
91.5	36,107	1,182	3.2733	96.7267	0.3619	91.5	36,107	1,182	3.2733	96.7267	0.3578	91.5	30,619	1,182	3.8600	96.1400	0.1632
92.5	27,534	650	2.3599	97.6401	0.3500	92.5	27,534	650	2.3599	97.6401	0.3461	92.5	22,584	650	2.8770	97.1230	0.1569
93.5	20,275	536	2.6432	97.3568	0.3418	93.5	20,275	536	2.6432	97.3568	0.3379	93.5	15,894	536	3.3718	96.6282	0.1524
94.5	14,748	309	2.0918	97.9082	0.3327	94.5	14,748	309	2.0918	97.9082	0.3290	94.5	10,838	309	2.8466	97.1534	0.1472
95.5	11,263	609	5.4079	94.5921	0.3258	95.5	11,263	609	5.4079	94.5921	0.3221	95.5	7,897	609	7.7131	92.2869	0.1430
96.5	9,030	41	0.4584	99.5416	0.3082	96.5	9,030	41	0.4584	99.5416	0.3047	96.5	5,770	41	0.7174	99.2826	0.1320
97.5	7,294	365	5.0054	94.9946	0.3068	97.5	7,294	365	5.0054	94.9946	0.3033	97.5	4,156	365	8.7843	91.2157	0.1310
98.5	6,067	293	4.8318	95.1682	0.2914	98.5	6,067	293	4.8318	95.1682	0.2881	98.5	3,098	293	9.4626	90.5374	0.1195
99.5	5,315	143	2.6935	97.3065	0.2773	99.5	5,315	143	2.6935	97.3065	0.2742	99.5	2,501	143	5.7236	94.2764	0.1082
100.5	4,757	159	3.3465	96.6535	0.2698	100.5	4,757	159	3.3465	96.6535	0.2668	100.5	1,942	159	8.1971	91.8029	0.1020

Best Fit Curve Results
NJAW WR17090985
Account: 334.00 - Meter Installs and Vaults

Curve	Life	Sum of Squared Differences
BAND	1892 - 2016	
R1.5	77.0	751.692
S0.5	78.0	1,345.387
R2	78.0	1,462.655
R1	76.0	1,486.052
S1	79.0	1,510.205
L1.5	82.0	2,023.590
S0	78.0	2,185.478
L2	82.0	2,343.802
S1.5	79.0	2,406.943
L1	83.0	2,929.778
R2.5	78.0	3,540.099
R0.5	77.0	3,880.734
L0.5	85.0	4,161.430
S-0.5	79.0	4,260.624
S2	79.0	4,320.463
L3	81.0	5,601.543
L0	87.0	6,195.874
R3	79.0	7,003.092
O1	79.0	7,832.703
O2	89.0	8,093.191
S3	80.0	10,167.322
L4	81.0	14,019.028
O3	100.0	16,302.791
R4	81.0	16,326.911
S4	81.0	21,407.718
L5	81.0	25,771.631
R5	82.0	31,290.584
S5	82.0	35,373.713
O4	100.0	36,693.326
S6	82.0	49,087.731
SQ	81.0	75,820.655

Analytical Parameters

OLT Placement Band: 1892 - 2016
 OLT Experience Band: 1892 - 2016
 Minimum Life Parameter: 1
 Maximum Life Parameter: 100
 Life Increment Parameter: 1
 Max Age (T-Cut): 109.5

Best Fit Curve Results
NJAW WR17090985
Account: 334.00 - Meter Installs and Vaults

Curve	Life	Sum of Squared Differences
BAND	1976 - 2016	
R1.5	77.0	753.805
S0.5	78.0	1,259.008
R1	76.0	1,323.769
S1	78.0	1,533.680
R2	77.0	1,573.329
L1.5	82.0	1,950.803
S0	78.0	2,009.064
L2	82.0	2,395.518
S1.5	79.0	2,572.717
L1	82.0	2,772.478
R0.5	77.0	3,613.540
R2.5	78.0	3,802.003
L0.5	84.0	3,932.744
S-0.5	78.0	3,978.400
S2	79.0	4,578.665
L3	81.0	5,880.435
L0	86.0	5,913.721
R3	79.0	7,435.384
O1	78.0	7,474.510
O2	88.0	7,753.180
S3	80.0	10,673.213
L4	80.0	14,548.635
O3	100.0	15,516.201
R4	80.0	17,032.393
S4	81.0	22,174.498
L5	81.0	26,550.796
R5	81.0	32,146.304
O4	100.0	35,208.650
S5	81.0	36,248.213
S6	81.0	50,032.796
SQ	80.0	76,755.694

Analytical Parameters

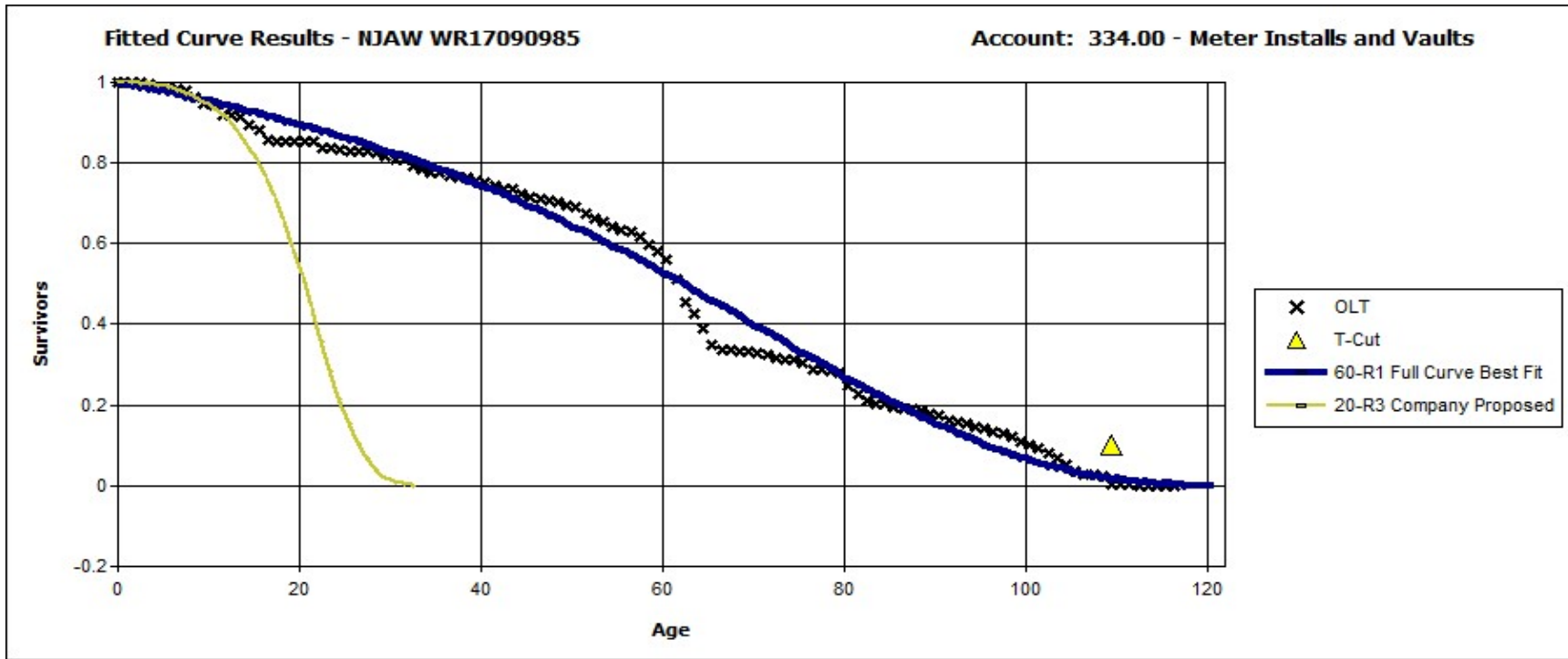
OLT Placement Band: 1892 - 2016
 OLT Experience Band: 1976 - 2016
 Minimum Life Parameter: 1
 Maximum Life Parameter: 100
 Life Increment Parameter: 1
 Max Age (T-Cut): 109.5

Best Fit Curve Results
NJAW WR17090985
Account: 334.00 - Meter Installs and Vaults

Curve	Life	Sum of Squared Differences
BAND	2007 - 2016	
R1	60.0	1,557.559
S0	60.0	2,007.445
S0.5	61.0	2,236.740
R0.5	59.0	2,244.641
R1.5	60.0	2,297.414
S-0.5	59.0	2,772.002
L1.5	62.0	3,176.902
L1	62.0	3,361.292
S1	62.0	3,510.736
L2	63.0	4,093.385
L0.5	62.0	4,162.105
R2	61.0	4,477.384
O1	57.0	5,022.206
S1.5	62.0	5,238.538
L0	62.0	5,889.097
O2	63.0	7,113.871
R2.5	62.0	7,311.013
L3	63.0	7,880.136
S2	62.0	8,005.859
R3	62.0	11,518.521
S3	63.0	14,308.495
L4	63.0	16,064.734
O3	77.0	16,294.981
R4	62.0	19,942.251
O4	100.0	21,011.925
S4	63.0	23,689.607
L5	63.0	25,770.115
R5	62.0	30,629.048
S5	62.0	33,141.361
S6	62.0	41,651.451
SQ	62.0	59,802.007

Analytical Parameters

OLT Placement Band: 1892 - 2016
 OLT Experience Band: 2007 - 2016
 Minimum Life Parameter: 1
 Maximum Life Parameter: 100
 Life Increment Parameter: 1
 Max Age (T-Cut): 109.5



Analytical Parameters

OLT Placement Band:	1892 - 2016
OLT Experience Band:	2007 - 2016
Minimum Life Parameter:	1
Maximum Life Parameter:	100
Life Increment Parameter:	1
Max Age (T-Cut):	111.0

NJAW WR17090985

334.00 - Meter Installs and Vaults

**Calculation of Remaining Life
Based Upon Broad Group/Vintage Group Procedures
Related to Original Cost as of December 31, 2016**

Survivor Curve .. IOWA: 40 R3

<u>Year</u> (1)	<u>Age</u> (2)	<u>Surviving Investment</u> (3)	<u>BG/VG Average</u>		<u>ASL Weights</u> (6)=(3)/(4)	<u>RL Weights</u> (7)=(6)*(5)
			<u>Service Life</u> (4)	<u>Remaining Life</u> (5)		
2016	0.5	12,193,766	40.00	39.51	304,844	12,043,463
2015	1.5	12,274,047	40.00	38.52	306,851	11,821,392
2014	2.5	13,757,314	40.00	37.55	343,933	12,913,366
2013	3.5	17,244,490	40.00	36.57	431,112	15,766,386
2012	4.5	6,905,760	40.00	35.60	172,644	6,146,316
2011	5.5	6,919,346	40.00	34.64	172,984	5,991,401
2010	6.5	6,381,672	40.00	33.68	159,542	5,372,671
2009	7.5	15,847,342	40.00	32.72	396,184	12,963,764
2008	8.5	5,340,782	40.00	31.77	133,520	4,242,464
2007	9.5	2,569,424	40.00	30.83	64,236	1,980,620
2006	10.5	18,404,594	40.00	29.90	460,115	13,757,851
2005	11.5	157,189	40.00	28.98	3,930	113,869
2004	12.5	1,498,675	40.00	28.06	37,467	1,051,336
2003	13.5	6,555,177	40.00	27.15	163,879	4,449,941
2002	14.5	11,120	40.00	26.26	278	7,299
2001	15.5	1,731	40.00	25.37	43	1,098
2000	16.5	4,559	40.00	24.49	114	2,792
1999	17.5	3,196,794	40.00	23.63	79,920	1,888,417
1998	18.5	4,743,886	40.00	22.78	118,597	2,701,079
1997	19.5	5,538,639	40.00	21.93	138,466	3,037,030
1996	20.5	4,071,582	40.00	21.10	101,790	2,148,137
1995	21.5	7,044,873	40.00	20.29	176,122	3,572,895
1994	22.5	2,748,674	40.00	19.48	68,717	1,338,750
1993	23.5	3,378,306	40.00	18.69	84,458	1,578,594
1992	24.5	2,704,271	40.00	17.91	67,607	1,211,064
1991	25.5	1,254,789	40.00	17.15	31,370	537,984
1990	26.5	2,982,683	40.00	16.40	74,567	1,222,954
1989	27.5	2,548,514	40.00	15.67	63,713	998,172
1988	28.5	2,468,227	40.00	14.95	61,706	922,405
1987	29.5	1,853,211	40.00	14.25	46,330	660,048
1986	30.5	1,680,293	40.00	13.56	42,007	569,699
1985	31.5	1,176,632	40.00	12.90	29,416	379,324
1984	32.5	918,525	40.00	12.25	22,963	281,242

1983	33.5	817,944	40.00	11.62	20,449	237,604
1982	34.5	383,921	40.00	11.01	9,598	105,697
1981	35.5	393,109	40.00	10.43	9,828	102,471
1980	36.5	326,082	40.00	9.86	8,152	80,407
1979	37.5	280,596	40.00	9.32	7,015	65,400
1978	38.5	294,608	40.00	8.81	7,365	64,859
1977	39.5	274,532	40.00	8.31	6,863	57,055
1976	40.5	334,799	40.00	7.84	8,370	65,653
1975	41.5	90,743	40.00	7.40	2,269	16,784
1974	42.5	67,019	40.00	6.98	1,675	11,689
1973	43.5	154,798	40.00	6.58	3,870	25,454
1972	44.5	108,050	40.00	6.20	2,701	16,748
1971	45.5	91,696	40.00	5.84	2,292	13,396
1970	46.5	80,734	40.00	5.51	2,018	11,114
1969	47.5	80,355	40.00	5.19	2,009	10,420
1968	48.5	70,080	40.00	4.88	1,752	8,556
1967	49.5	51,709	40.00	4.59	1,293	5,938
1966	50.5	78,123	40.00	4.31	1,953	8,426
1965	51.5	263,122	40.00	4.04	6,578	26,605
1964	52.5	63,397	40.00	3.78	1,585	5,992
1963	53.5	64,023	40.00	3.52	1,601	5,636
1962	54.5	74,169	40.00	3.26	1,854	6,053
1961	55.5	75,828	40.00	3.01	1,896	5,703
1960	56.5	56,761	40.00	2.75	1,419	3,907
1959	57.5	39,520	40.00	2.50	988	2,468
1958	58.5	49,607	40.00	2.24	1,240	2,783
1957	59.5	64,755	40.00	1.99	1,619	3,224
1956	60.5	68,924	40.00	1.74	1,723	3,004
1955	61.5	55,097	40.00	1.50	1,377	2,066
1954	62.5	55,348	40.00	1.26	1,384	1,749
1953	63.5	27,509	40.00	1.04	688	713
1952	64.5	25,377	40.00	0.82	634	523
1951	65.5	15,707	40.00	0.63	393	249
1950	66.5	26,902	40.00	0.51	673	342
1949	67.5	8,469	40.00	0.50	212	106
1948	68.5	28,842	40.00	0.50	721	361
1947	69.5	18,808	40.00	0.50	470	235
1946	70.5	12,125	40.00	0.50	303	152
1945	71.5	4,138	40.00	0.50	103	52
1944	72.5	2,295	40.00	0.50	57	29
1943	73.5	4,470	40.00	0.50	112	56
1942	74.5	9,342	40.00	0.50	234	117
1941	75.5	13,910	40.00	0.50	348	174
1940	76.5	8,573	40.00	0.50	214	107
1939	77.5	8,052	40.00	0.50	201	101
1938	78.5	6,910	40.00	0.50	173	86
1937	79.5	9,344	40.00	0.50	234	117
1936	80.5	7,350	40.00	0.50	184	92
1935	81.5	3,399	40.00	0.50	85	42
1934	82.5	4,365	40.00	0.50	109	55

1933	83.5	3,828	40.00	0.50	96	48
1932	84.5	6,318	40.00	0.50	158	79
1931	85.5	22,243	40.00	0.50	556	278
1930	86.5	10,615	40.00	0.50	265	133
1929	87.5	12,268	40.00	0.50	307	153
1928	88.5	10,672	40.00	0.50	267	133
1927	89.5	11,581	40.00	0.50	290	145
1926	90.5	14,914	40.00	0.50	373	186
1925	91.5	16,569	40.00	0.50	414	207
1924	92.5	7,391	40.00	0.50	185	92
1923	93.5	6,609	40.00	0.50	165	83
1922	94.5	4,991	40.00	0.50	125	62
1921	95.5	3,177	40.00	0.50	79	40
1920	96.5	1,624	40.00	0.50	41	20
1919	97.5	1,695	40.00	0.50	42	21
1918	98.5	861	40.00	0.50	22	11
1917	99.5	459	40.00	0.50	11	6
1916	100.5	415	40.00	0.50	10	5
1915	101.5	163	40.00	0.50	4	2
1914	102.5	140	40.00	0.50	4	2
1913	103.5	163	40.00	0.50	4	2
1912	104.5	0	40.00	0.50	0	0
1911	105.5	0	40.00	0.50	0	0
1910	106.5	0	40.00	0.50	0	0
1909	107.5	0	40.00	0.50	0	0
1908	108.5	0	40.00	0.50	0	0
1907	109.5	0	40.00	0.50	0	0
1906	110.5	0	40.00	0.50	0	0
1905	111.5	0	40.00	0.50	0	0
1904	112.5	0	40.00	0.50	0	0
1903	113.5	0	40.00	0.50	0	0
1902	114.5	0	40.00	0.50	0	0
1901	115.5	0	40.00	0.50	0	0
1900	116.5	0	40.00	0.50	0	0
1899	117.5	0	40.00	0.50	0	0
1898	118.5	0	40.00	0.50	0	0
1897	119.5	0	40.00	0.50	0	0
1896	120.5	0	40.00	0.50	0	0
1895	121.5	0	40.00	0.50	0	0
1894	122.5	0	40.00	0.50	0	0
1893	123.5	0	40.00	0.50	0	0
1892	124.5	0	40.00	0.50	0	0

179,668,918

4,491,723 132,656,100

AVERAGE SERVICE LIFE 40.00
 AVERAGE REMAINING LIFE 29.53

Observed Life Table Results
NJAW WR17090985
Account: 334.10 - Meters

Age	Exposures	Retirements	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors	Age	Exposures	Retirements	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors	Age	Exposures	Retirements	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors
BAND		1921 - 2016				BAND		1976 - 2016				BAND		2007 - 2016			
0	222,196,312	0	0.0000	100.0000	1.0000	0	222,090,678	0	0.0000	100.0000	1.0000	0	155,889,995	0	0.0000	100.0000	1.0000
0.5	198,774,633	2,199	0.0011	99.9989	1.0000	0.5	198,685,065	2,199	0.0011	99.9989	1.0000	0.5	142,890,127	2,199	0.0015	99.9985	1.0000
1.5	185,351,383	1,114,910	0.6015	99.3985	1.0000	1.5	185,264,830	1,114,910	0.6018	99.3982	1.0000	1.5	131,629,474	1,114,910	0.8470	99.1530	1.0000
2.5	174,248,869	1,573,314	0.9029	99.0971	0.9940	2.5	174,174,295	1,573,314	0.9033	99.0967	0.9940	2.5	120,544,586	1,573,314	1.3052	98.6948	0.9915
3.5	161,501,643	4,195,067	2.5975	97.4025	0.9850	3.5	161,434,159	4,195,067	2.5986	97.4014	0.9850	3.5	124,019,158	4,195,067	3.3826	96.6174	0.9786
4.5	144,019,627	2,974,157	2.0651	97.9349	0.9594	4.5	143,959,823	2,974,157	2.0660	97.9340	0.9594	4.5	109,216,540	2,974,157	2.7232	97.2768	0.9455
5.5	122,954,108	6,436,530	5.2349	94.7651	0.9396	5.5	122,899,544	6,436,530	5.2372	94.7628	0.9396	5.5	90,572,594	6,436,530	7.1065	92.8935	0.9197
6.5	101,737,083	8,289,602	8.1481	91.8519	0.8904	6.5	101,687,345	8,289,602	8.1520	91.8480	0.8904	6.5	72,350,693	8,289,602	11.4575	88.5425	0.8544
7.5	71,753,401	1,278,327	1.7816	98.2184	0.8179	7.5	71,707,962	1,278,327	1.7827	98.2173	0.8178	7.5	46,576,381	1,278,327	2.7446	97.2554	0.7565
8.5	63,231,101	348,085	0.5505	99.4495	0.8033	8.5	63,190,203	348,085	0.5509	99.4491	0.8032	8.5	40,668,938	348,085	0.8559	99.1441	0.7357
9.5	59,548,484	1,389,261	2.3330	97.6670	0.7989	9.5	59,512,392	1,389,261	2.3344	97.6656	0.7988	9.5	40,386,075	1,389,261	3.4399	96.5601	0.7294
10.5	48,778,900	1,717,755	3.5215	96.4785	0.7802	10.5	48,762,747	1,717,755	3.5227	96.4773	0.7801	10.5	32,721,802	1,717,755	5.2496	94.7504	0.7043
11.5	45,185,770	219,896	0.4866	99.5134	0.7528	11.5	45,172,119	219,896	0.4868	99.5132	0.7527	11.5	32,037,184	219,896	0.6864	99.3136	0.6674
12.5	44,952,989	1,282,306	2.8525	97.1475	0.7491	12.5	44,942,754	1,282,306	2.8532	97.1468	0.7490	12.5	34,164,907	1,282,306	3.7533	96.2467	0.6628
13.5	31,200,345	963,687	3.0887	96.9113	0.7277	13.5	31,192,401	963,687	3.0895	96.9105	0.7276	13.5	24,570,378	963,687	3.9221	96.0779	0.6379
14.5	27,877,143	1,573,167	5.6432	94.3568	0.7052	14.5	27,871,732	1,573,167	5.6443	94.3557	0.7051	14.5	22,298,194	1,573,167	7.0551	92.9449	0.6129
15.5	26,282,036	668,841	2.5449	97.4551	0.6654	15.5	26,277,106	668,841	2.5453	97.4547	0.6653	15.5	21,556,566	668,841	3.1027	96.8973	0.5696
16.5	22,658,152	284,770	1.2568	98.7432	0.6485	16.5	22,656,727	284,770	1.2569	98.7431	0.6484	16.5	19,337,871	284,770	1.4726	98.5274	0.5520
17.5	18,889,652	448,681	2.3753	97.6247	0.6404	17.5	18,888,228	448,681	2.3755	97.6245	0.6403	17.5	16,922,774	448,681	2.6513	97.3487	0.5438
18.5	17,318,438	227,415	1.3131	98.6869	0.6252	18.5	17,317,013	227,415	1.3132	98.6868	0.6250	18.5	16,579,595	227,415	1.3717	98.6283	0.5294
19.5	14,574,383	1,037,057	7.1156	92.8844	0.6169	19.5	14,572,959	1,037,057	7.1163	92.8837	0.6168	19.5	14,250,166	1,037,057	7.2775	92.7225	0.5222
20.5	11,342,977	118,429	1.0441	98.9559	0.5730	20.5	11,341,553	118,429	1.0442	98.9558	0.5729	20.5	11,060,835	118,429	1.0707	98.9293	0.4842
21.5	9,675,875	579,931	5.9936	94.0064	0.5671	21.5	9,674,451	579,931	5.9945	94.0055	0.5670	21.5	9,412,302	579,931	6.1614	93.8386	0.4790
22.5	7,895,531	137,304	1.7390	98.2610	0.5331	22.5	7,894,106	137,304	1.7393	98.2607	0.5330	22.5	7,670,947	137,304	1.7899	98.2101	0.4495
23.5	5,672,123	116,284	2.0501	97.9499	0.5238	23.5	5,670,698	116,284	2.0506	97.9494	0.5237	23.5	5,458,462	116,284	2.1303	97.8697	0.4414
24.5	4,600,166	239,569	5.2078	94.7922	0.5131	24.5	4,598,742	239,569	5.2095	94.7905	0.5130	24.5	4,404,256	239,569	5.4395	94.5605	0.4320
25.5	3,544,157	37,488	1.0577	98.9423	0.4863	25.5	3,542,733	37,488	1.0582	98.9418	0.4862	25.5	3,370,863	37,488	1.1121	98.8879	0.4085
26.5	2,229,157	156,595	7.0249	92.9751	0.4812	26.5	2,227,733	156,595	7.0293	92.9707	0.4811	26.5	2,078,679	156,595	7.5334	92.4666	0.4040
27.5	1,234,849	23,240	1.8821	98.1179	0.4474	27.5	1,233,424	23,240	1.8842	98.1158	0.4473	27.5	1,104,303	23,240	2.1045	97.8955	0.3735
28.5	525,793	10,927	2.0783	97.9217	0.4390	28.5	524,368	10,927	2.0839	97.9161	0.4388	28.5	409,000	10,927	2.6717	97.3283	0.3657
29.5	276,078	3,480	1.2606	98.7394	0.4299	29.5	274,653	3,480	1.2671	98.7329	0.4297	29.5	167,592	3,480	2.0766	97.9234	0.3559
30.5	238,607	6,458	2.7066	97.2934	0.4244	30.5	237,183	6,458	2.7229	97.2771	0.4243	30.5	132,972	6,458	4.8568	95.1432	0.3485
31.5	218,710	2,139	0.9779	99.0221	0.4129	31.5	217,285	2,139	0.9843	99.0157	0.4127	31.5	129,142	2,139	1.6562	98.3438	0.3316
32.5	184,772	1,245	0.6739	99.3261	0.4089	32.5	183,347	1,245	0.6791	99.3209	0.4086	32.5	98,219	1,245	1.2678	98.7322	0.3261
33.5	172,604	2,526	1.4636	98.5364	0.4062	33.5	171,179	2,526	1.4758	98.5242	0.4059	33.5	98,030	2,526	2.5771	97.4229	0.3220
34.5	158,090	84	0.0529	99.9471	0.4002	34.5	156,666	84	0.0534	99.9466	0.3999	34.5	90,606	84	0.0923	99.9077	0.3137
35.5	144,344	0	0.0000	100.0000	0.4000	35.5	142,920	0	0.0000	100.0000	0.3997	35.5	84,540	0	0.0000	100.0000	0.3134
36.5	129,071	0	0.0000	100.0000	0.4000	36.5	127,646	0	0.0000	100.0000	0.3997	36.5	74,507	0	0.0000	100.0000	0.3134
37.5	116,053	15,976	13.7662	86.2338	0.4000	37.5	114,629	15,976	13.9373	86.0627	0.3997	37.5	66,315	15,976	24.0912	75.9088	0.3134
38.5	92,556	144	0.1560	99.8440	0.3449	38.5	91,655	144	0.1576	99.8424	0.3440	38.5	47,117	144	0.3065	99.6935	0.2379
39.5	88,784	1,914	2.1556	97.8444	0.3444	39.5	87,883	1,914	2.1777	97.8223	0.3434	39.5	47,886	1,914	3.9966	96.0034	0.2371
40.5	85,218	165	0.1935	99.8065	0.3370	40.5	84,317	165	0.1955	99.8045	0.3359	40.5	49,126	165	0.3356	99.6644	0.2277
41.5	84,963	1,336	1.5729	98.4271	0.3363	41.5	84,061	1,336	1.5897	98.4103	0.3353	41.5	68,810	1,336	1.9421	98.0579	0.2269
42.5	80,611	0	0.0000	100.0000	0.3310	42.5	79,710	0	0.0000	100.0000	0.3300	42.5	66,960	0	0.0000	100.0000	0.2225
43.5	73,072	2,974	4.0705	95.9295	0.3310	43.5	72,419	2,974	4.1073	95.8927	0.3300	43.5	62,837	2,974	4.7336	95.2664	0.2225
44.5	63,173	1,105	1.7496	98.2504	0.3176	44.5	62,519	1,105	1.7679	98.2321	0.3164	44.5	55,229	1,105	2.0013	97.9987	0.2120
45.5	55,725	0	0.0000	100.0000	0.3120	45.5	55,276	0	0.0000	100.0000	0.3108	45.5	50,314	0	0.0000	100.0000	0.2077
46.5	50,484	0	0.0000	100.0000	0.3120	46.5	50,036	0	0.0000	100.0000	0.3108	46.5	45,554	0	0.0000	100.0000	0.2077

47.5	46,372	15,380	33.1668	66.8332	0.3120	47.5	45,923	15,380	33.4908	66.5092	0.3108	47.5	44,947	15,380	34.2179	65.7821	0.2077
48.5	26,693	0	0.0000	100.0000	0.2085	48.5	26,244	0	0.0000	100.0000	0.2067	48.5	25,268	0	0.0000	100.0000	0.1366
49.5	22,152	0	0.0000	100.0000	0.2085	49.5	21,703	0	0.0000	100.0000	0.2067	49.5	20,728	0	0.0000	100.0000	0.1366
50.5	17,346	0	0.0000	100.0000	0.2085	50.5	16,897	0	0.0000	100.0000	0.2067	50.5	15,922	0	0.0000	100.0000	0.1366
51.5	15,326	0	0.0000	100.0000	0.2085	51.5	14,877	0	0.0000	100.0000	0.2067	51.5	13,901	0	0.0000	100.0000	0.1366
52.5	12,825	0	0.0000	100.0000	0.2085	52.5	12,376	0	0.0000	100.0000	0.2067	52.5	11,400	0	0.0000	100.0000	0.1366
53.5	9,408	0	0.0000	100.0000	0.2085	53.5	8,960	0	0.0000	100.0000	0.2067	53.5	7,984	0	0.0000	100.0000	0.1366
54.5	7,944	0	0.0000	100.0000	0.2085	54.5	7,944	0	0.0000	100.0000	0.2067	54.5	6,520	0	0.0000	100.0000	0.1366
55.5	5,411	0	0.0000	100.0000	0.2085	55.5	5,411	0	0.0000	100.0000	0.2067	55.5	3,986	0	0.0000	100.0000	0.1366
56.5	4,930	0	0.0000	100.0000	0.2085	56.5	4,930	0	0.0000	100.0000	0.2067	56.5	3,505	0	0.0000	100.0000	0.1366
57.5	1,425	0	0.0000	100.0000	0.2085	57.5	1,425	0	0.0000	100.0000	0.2067	57.5	0	0	0.0000	100.0000	0.1366
58.5	1,425	0	0.0000	100.0000	0.2085	58.5	1,425	0	0.0000	100.0000	0.2067	58.5	0	0	0.0000	100.0000	0.1366
59.5	1,425	0	0.0000	100.0000	0.2085	59.5	1,425	0	0.0000	100.0000	0.2067	59.5	0	0	0.0000	100.0000	0.1366
60.5	1,425	0	0.0000	100.0000	0.2085	60.5	1,425	0	0.0000	100.0000	0.2067	60.5	0	0	0.0000	100.0000	0.1366
61.5	1,425	0	0.0000	100.0000	0.2085	61.5	1,425	0	0.0000	100.0000	0.2067	61.5	0	0	0.0000	100.0000	0.1366
62.5	1,425	0	0.0000	100.0000	0.2085	62.5	1,425	0	0.0000	100.0000	0.2067	62.5	0	0	0.0000	100.0000	0.1366
63.5	1,425	0	0.0000	100.0000	0.2085	63.5	1,425	0	0.0000	100.0000	0.2067	63.5	0	0	0.0000	100.0000	0.1366
64.5	1,425	0	0.0000	100.0000	0.2085	64.5	1,425	0	0.0000	100.0000	0.2067	64.5	0	0	0.0000	100.0000	0.1366
65.5	1,425	0	0.0000	100.0000	0.2085	65.5	1,425	0	0.0000	100.0000	0.2067	65.5	0	0	0.0000	100.0000	0.1366
66.5	1,425	0	0.0000	100.0000	0.2085	66.5	1,425	0	0.0000	100.0000	0.2067	66.5	0	0	0.0000	100.0000	0.1366
67.5	1,425	0	0.0000	100.0000	0.2085	67.5	1,425	0	0.0000	100.0000	0.2067	67.5	0	0	0.0000	100.0000	0.1366
68.5	1,425	0	0.0000	100.0000	0.2085	68.5	1,425	0	0.0000	100.0000	0.2067	68.5	0	0	0.0000	100.0000	0.1366
69.5	1,425	0	0.0000	100.0000	0.2085	69.5	1,425	0	0.0000	100.0000	0.2067	69.5	523	0	0.0000	100.0000	0.1366
70.5	1,425	0	0.0000	100.0000	0.2085	70.5	1,425	0	0.0000	100.0000	0.2067	70.5	523	0	0.0000	100.0000	0.1366
71.5	1,425	0	0.0000	100.0000	0.2085	71.5	1,425	0	0.0000	100.0000	0.2067	71.5	523	0	0.0000	100.0000	0.1366
72.5	1,425	0	0.0000	100.0000	0.2085	72.5	1,425	0	0.0000	100.0000	0.2067	72.5	523	0	0.0000	100.0000	0.1366
73.5	1,425	0	0.0000	100.0000	0.2085	73.5	1,425	0	0.0000	100.0000	0.2067	73.5	523	0	0.0000	100.0000	0.1366
74.5	1,425	0	0.0000	100.0000	0.2085	74.5	1,425	0	0.0000	100.0000	0.2067	74.5	771	0	0.0000	100.0000	0.1366
75.5	1,425	0	0.0000	100.0000	0.2085	75.5	1,425	0	0.0000	100.0000	0.2067	75.5	771	0	0.0000	100.0000	0.1366
76.5	1,425	0	0.0000	100.0000	0.2085	76.5	1,425	0	0.0000	100.0000	0.2067	76.5	976	0	0.0000	100.0000	0.1366
77.5	1,425	0	0.0000	100.0000	0.2085	77.5	1,425	0	0.0000	100.0000	0.2067	77.5	976	0	0.0000	100.0000	0.1366
78.5	1,425	0	0.0000	100.0000	0.2085	78.5	1,425	0	0.0000	100.0000	0.2067	78.5	976	0	0.0000	100.0000	0.1366
79.5	901	0	0.0000	100.0000	0.2085	79.5	901	0	0.0000	100.0000	0.2067	79.5	453	0	0.0000	100.0000	0.1366
80.5	901	0	0.0000	100.0000	0.2085	80.5	901	0	0.0000	100.0000	0.2067	80.5	453	0	0.0000	100.0000	0.1366
81.5	901	0	0.0000	100.0000	0.2085	81.5	901	0	0.0000	100.0000	0.2067	81.5	453	0	0.0000	100.0000	0.1366
82.5	901	0	0.0000	100.0000	0.2085	82.5	901	0	0.0000	100.0000	0.2067	82.5	453	0	0.0000	100.0000	0.1366
83.5	901	0	0.0000	100.0000	0.2085	83.5	901	0	0.0000	100.0000	0.2067	83.5	453	0	0.0000	100.0000	0.1366
84.5	654	0	0.0000	100.0000	0.2085	84.5	654	0	0.0000	100.0000	0.2067	84.5	205	0	0.0000	100.0000	0.1366
85.5	654	0	0.0000	100.0000	0.2085	85.5	654	0	0.0000	100.0000	0.2067	85.5	654	0	0.0000	100.0000	0.1366
86.5	449	0	0.0000	100.0000	0.2085	86.5	449	0	0.0000	100.0000	0.2067	86.5	449	0	0.0000	100.0000	0.1366
87.5	449	0	0.0000	100.0000	0.2085	87.5	449	0	0.0000	100.0000	0.2067	87.5	449	0	0.0000	100.0000	0.1366
88.5	449	0	0.0000	100.0000	0.2085	88.5	449	0	0.0000	100.0000	0.2067	88.5	449	0	0.0000	100.0000	0.1366
89.5	449	0	0.0000	100.0000	0.2085	89.5	449	0	0.0000	100.0000	0.2067	89.5	449	0	0.0000	100.0000	0.1366
90.5	449	0	0.0000	100.0000	0.2085	90.5	449	0	0.0000	100.0000	0.2067	90.5	449	0	0.0000	100.0000	0.1366
91.5	449	0	0.0000	100.0000	0.2085	91.5	449	0	0.0000	100.0000	0.2067	91.5	449	0	0.0000	100.0000	0.1366
92.5	449	0	0.0000	100.0000	0.2085	92.5	449	0	0.0000	100.0000	0.2067	92.5	449	0	0.0000	100.0000	0.1366
93.5	449	0	0.0000	100.0000	0.2085	93.5	449	0	0.0000	100.0000	0.2067	93.5	449	0	0.0000	100.0000	0.1366
94.5	449	0	0.0000	100.0000	0.2085	94.5	449	0	0.0000	100.0000	0.2067	94.5	449	0	0.0000	100.0000	0.1366

Best Fit Curve Results
NJAW WR17090985
Account: 334.10 - Meters

Curve	Life	Sum of Squared Differences
BAND	1921 - 2016	
O3	38.0	310.615
O4	49.0	382.290
O2	32.0	1,214.053
O1	29.0	1,613.148
L0	31.0	1,617.995
L0.5	30.0	2,825.362
S-0.5	30.0	3,115.295
R0.5	30.0	3,595.505
L1	30.0	4,409.056
S0	30.0	5,335.669
R1	30.0	6,461.431
L1.5	30.0	6,690.757
S0.5	30.0	7,768.673
L2	30.0	9,515.938
R1.5	30.0	9,616.130
S1	30.0	10,722.680
R2	31.0	13,470.599
S1.5	30.0	13,956.964
L3	30.0	16,775.843
R2.5	31.0	17,624.534
S2	30.0	17,682.115
R3	30.0	22,493.077
S3	30.0	25,036.335
L4	29.0	26,936.269
R4	29.0	30,735.472
S4	28.0	33,774.238
L5	28.0	35,517.070
R5	27.0	39,104.324
S5	27.0	40,849.054
S6	26.0	46,361.218
SQ	25.0	56,554.348

Analytical Parameters

OLT Placement Band: 1921 - 2016
 OLT Experience Band: 1921 - 2016
 Minimum Life Parameter 1
 Maximum Life Parameter 100
 Life Increment Parameter 1
 Max Age (T-Cut): 48.5

Best Fit Curve Results
NJAW WR17090985
Account: 334.10 - Meters

Curve	Life	Sum of Squared Differences
BAND	1976 - 2016	
O3	38.0	309.934
O4	49.0	387.876
O2	32.0	1,203.231
O1	29.0	1,598.981
L0	31.0	1,605.178
L0.5	30.0	2,803.496
S-0.5	30.0	3,100.786
R0.5	30.0	3,579.868
L1	30.0	4,384.291
S0	30.0	5,312.974
R1	30.0	6,436.479
L1.5	30.0	6,661.040
S0.5	30.0	7,738.837
L2	30.0	9,481.268
R1.5	30.0	9,581.920
S1	30.0	10,685.704
R2	31.0	13,437.234
S1.5	30.0	13,913.185
L3	30.0	16,729.855
R2.5	31.0	17,582.245
S2	30.0	17,631.533
R3	30.0	22,433.336
S3	30.0	24,975.002
L4	29.0	26,868.875
R4	29.0	30,661.105
S4	28.0	33,694.853
L5	28.0	35,437.930
R5	27.0	39,019.775
S5	27.0	40,764.374
S6	26.0	46,273.440
SQ	25.0	56,464.265

Analytical Parameters

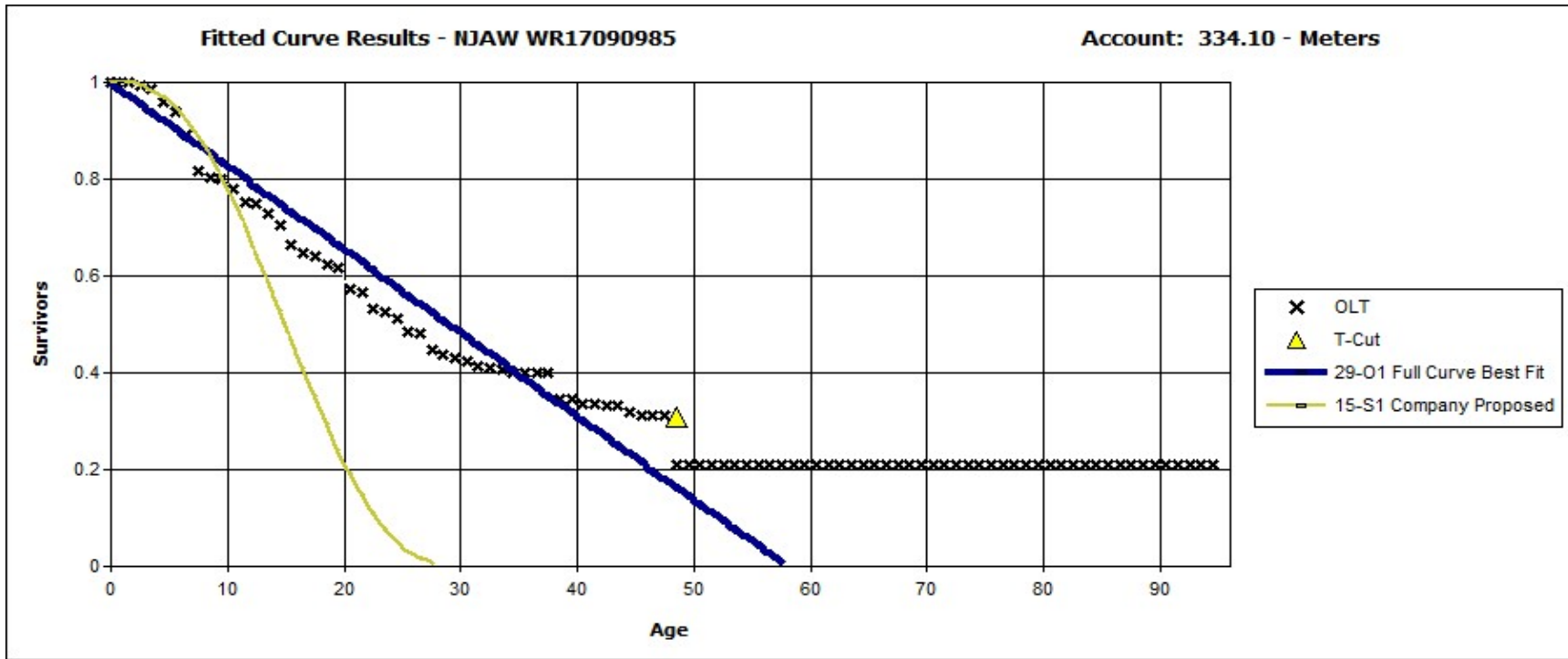
OLT Placement Band: 1921 - 2016
 OLT Experience Band: 1976 - 2016
 Minimum Life Parameter 1
 Maximum Life Parameter 100
 Life Increment Parameter 1
 Max Age (T-Cut): 48.5

Best Fit Curve Results
NJAW WR17090985
Account: 334.10 - Meters

Curve	Life	Sum of Squared Differences
BAND	2007 - 2016	
O3	29.0	372.395
O4	36.0	648.660
O2	26.0	1,558.794
L0	25.0	2,158.591
O1	25.0	3,089.488
L0.5	25.0	3,557.876
S-0.5	25.0	4,838.492
L1	25.0	5,364.131
R0.5	25.0	5,431.313
S0	25.0	7,384.683
L1.5	25.0	7,702.113
R1	25.0	8,797.386
S0.5	25.0	9,804.409
L2	25.0	10,535.550
R1.5	25.0	11,782.971
S1	25.0	12,700.904
R2	25.0	15,435.742
S1.5	25.0	15,594.343
L3	24.0	17,521.651
R2.5	24.0	18,786.632
S2	24.0	18,832.419
R3	24.0	22,672.747
S3	23.0	24,749.474
L4	23.0	26,185.320
R4	23.0	28,975.181
S4	22.0	31,512.118
L5	22.0	32,945.401
R5	22.0	35,664.369
S5	22.0	37,159.545
S6	21.0	41,693.122
SQ	20.0	49,900.499

Analytical Parameters

OLT Placement Band: 1921 - 2016
 OLT Experience Band: 2007 - 2016
 Minimum Life Parameter 1
 Maximum Life Parameter 100
 Life Increment Parameter 1
 Max Age (T-Cut): 48.5



Analytical Parameters

OLT Placement Band: 1921 - 2016
 OLT Experience Band: 1921 - 2016
 Minimum Life Parameter: 1
 Maximum Life Parameter: 100
 Life Increment Parameter: 1
 Max Age (T-Cut): 50.0

NJAW WR17090985

334.10 - Meters

Calculation of Remaining Life
Based Upon Broad Group/Vintage Group Procedures
Related to Original Cost as of December 31, 2016

Survivor Curve .. IOWA: 29 O1

<u>Year</u>	<u>Age</u>	<u>Surviving Investment</u>	<u>BG/VG Average</u>		<u>ASL Weights</u>	<u>RL Weights</u>
			<u>Service Life</u>	<u>Remaining Life</u>		
(1)	(2)	(3)	(4)	(5)	(6)=(3)/(4)	(7)=(6)*(5)
2016	0.5	23,421,680	29.00	28.75	807,644	23,221,964
2015	1.5	13,421,051	29.00	28.25	462,795	13,075,235
2014	2.5	9,987,604	29.00	27.75	344,400	9,558,074
2013	3.5	11,173,912	29.00	27.25	385,307	10,500,729
2012	4.5	13,286,949	29.00	26.75	458,171	12,257,403
2011	5.5	18,091,361	29.00	26.25	623,840	16,377,658
2010	6.5	14,780,496	29.00	25.75	509,672	13,125,608
2009	7.5	21,694,079	29.00	25.25	748,072	18,891,125
2008	8.5	7,243,973	29.00	24.75	249,792	6,183,145
2007	9.5	3,334,532	29.00	24.25	114,984	2,788,729
2006	10.5	9,380,323	29.00	23.75	323,459	7,683,225
2005	11.5	1,875,375	29.00	23.25	64,668	1,503,751
2004	12.5	12,885	29.00	22.75	444	10,110
2003	13.5	12,470,338	29.00	22.25	430,012	9,569,269
2002	14.5	2,359,516	29.00	21.75	81,363	1,769,929
2001	15.5	21,940	29.00	21.25	757	16,080
2000	16.5	2,955,044	29.00	20.75	101,898	2,114,768
1999	17.5	3,483,729	29.00	20.25	120,129	2,433,068
1998	18.5	1,122,534	29.00	19.75	38,708	764,637
1997	19.5	2,516,640	29.00	19.25	86,781	1,670,880
1996	20.5	2,194,348	29.00	18.75	75,667	1,419,075
1995	21.5	1,548,673	29.00	18.25	53,403	974,825
1994	22.5	1,200,413	29.00	17.75	41,394	734,918
1993	23.5	2,086,104	29.00	17.25	71,935	1,241,198
1992	24.5	955,673	29.00	16.75	32,954	552,137
1991	25.5	816,440	29.00	16.25	28,153	457,623
1990	26.5	1,277,512	29.00	15.75	44,052	694,040
1989	27.5	837,713	29.00	15.26	28,887	440,670
1988	28.5	685,816	29.00	14.76	23,649	348,945
1987	29.5	238,787	29.00	14.26	8,234	117,380

1986	30.5	33,991	29.00	13.76	1,172	16,123
1985	31.5	13,439	29.00	13.26	463	6,143
1984	32.5	31,799	29.00	12.76	1,097	13,987
1983	33.5	10,923	29.00	12.26	377	4,616
1982	34.5	11,987	29.00	11.76	413	4,859
1981	35.5	13,662	29.00	11.26	471	5,303
1980	36.5	15,274	29.00	10.76	527	5,665
1979	37.5	13,017	29.00	10.26	449	4,604
1978	38.5	7,521	29.00	9.76	259	2,531
1977	39.5	3,628	29.00	9.26	125	1,158
1976	40.5	1,652	29.00	8.76	57	499
1975	41.5	91	29.00	8.26	3	26
1974	42.5	3,015	29.00	7.76	104	807
1973	43.5	7,539	29.00	7.26	260	1,887
1972	44.5	6,925	29.00	6.76	239	1,614
1971	45.5	6,343	29.00	6.26	219	1,369
1970	46.5	5,241	29.00	5.76	181	1,041
1969	47.5	4,112	29.00	5.26	142	746
1968	48.5	4,299	29.00	4.76	148	706
1967	49.5	4,541	29.00	4.27	157	668
1966	50.5	4,806	29.00	3.77	166	624
1965	51.5	2,020	29.00	3.27	70	228
1964	52.5	2,501	29.00	2.77	86	239
1963	53.5	3,416	29.00	2.28	118	268
1962	54.5	1,464	29.00	1.79	50	90
1961	55.5	2,533	29.00	1.30	87	114
1960	56.5	481	29.00	0.83	17	14
1959	57.5	3,505	29.00	0.50	121	60
1958	58.5	0	29.00	0.50	0	0
1957	59.5	0	29.00	0.50	0	0
1956	60.5	0	29.00	0.50	0	0
1955	61.5	0	29.00	0.50	0	0
1954	62.5	0	29.00	0.50	0	0
1953	63.5	0	29.00	0.50	0	0
1952	64.5	0	29.00	0.50	0	0
1951	65.5	0	29.00	0.50	0	0
1950	66.5	0	29.00	0.50	0	0
1949	67.5	0	29.00	0.50	0	0
1948	68.5	0	29.00	0.50	0	0
1947	69.5	0	29.00	0.50	0	0
1946	70.5	0	29.00	0.50	0	0
1945	71.5	0	29.00	0.50	0	0
1944	72.5	0	29.00	0.50	0	0
1943	73.5	0	29.00	0.50	0	0
1942	74.5	0	29.00	0.50	0	0
1941	75.5	0	29.00	0.50	0	0
1940	76.5	0	29.00	0.50	0	0

1939	77.5	0	29.00	0.50	0	0
1938	78.5	0	29.00	0.50	0	0
1937	79.5	523	29.00	0.50	18	9
1936	80.5	0	29.00	0.50	0	0
1935	81.5	0	29.00	0.50	0	0
1934	82.5	0	29.00	0.50	0	0
1933	83.5	0	29.00	0.50	0	0
1932	84.5	248	29.00	0.50	9	4
1931	85.5	0	29.00	0.50	0	0
1930	86.5	205	29.00	0.50	7	4
1929	87.5	0	29.00	0.50	0	0
1928	88.5	0	29.00	0.50	0	0
1927	89.5	0	29.00	0.50	0	0
1926	90.5	0	29.00	0.50	0	0
1925	91.5	0	29.00	0.50	0	0
1924	92.5	0	29.00	0.50	0	0
1923	93.5	0	29.00	0.50	0	0
1922	94.5	0	29.00	0.50	0	0
1921	95.5	449	29.00	0.50	15	8

184,696,591

6,368,848 160,572,214

AVERAGE SERVICE LIFE 29.00
 AVERAGE REMAINING LIFE 25.21

Observed Life Table Results

NJAW WR17090985

Account: 361.10 - Collection Sewers - Gravity Mains

Age	Exposures	Retirement	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors	Age	Exposures	Retirements	Retirement Ratio (%)	Survivor Ratio (%)	Cumulative Survivors	
BAND		1909 - 2016				BAND		1976 - 2016				
0	143,593,104	0	0.0000	100.0000	1.0000	0	137,194,810	0	0.0000	100.0000	1.0000	
0.5	139,165,211	1,695	0.0012	99.9988	1.0000	0.5	133,290,146	1,695	0.0013	99.9987	1.0000	
1.5	127,378,154	11,734	0.0092	99.9908	1.0000	1.5	121,591,438	11,734	0.0097	99.9903	1.0000	
2.5	124,498,991	10,424	0.0084	99.9916	0.9999	2.5	119,054,091	10,424	0.0088	99.9912	0.9999	
3.5	121,873,210	75	0.0001	99.9999	0.9998	3.5	116,920,384	75	0.0001	99.9999	0.9998	
4.5	116,163,691	15,730	0.0135	99.9865	0.9998	4.5	111,414,235	15,730	0.0141	99.9859	0.9998	
5.5	113,806,631	25,668	0.0226	99.9774	0.9997	5.5	109,336,287	25,668	0.0235	99.9765	0.9997	
6.5	111,552,451	73,626	0.0660	99.9340	0.9995	6.5	107,787,219	73,626	0.0683	99.9317	0.9994	
7.5	106,151,349	120,687	0.1137	99.8863	0.9988	7.5	102,555,444	120,687	0.1177	99.8823	0.9987	
8.5	95,415,842	173	0.0002	99.9998	0.9977	8.5	91,991,774	173	0.0002	99.9998	0.9976	
9.5	87,477,175	293	0.0003	99.9997	0.9977	9.5	84,680,277	293	0.0003	99.9997	0.9976	
10.5	75,496,621	5,234	0.0069	99.9931	0.9977	10.5	72,880,815	5,234	0.0072	99.9928	0.9976	
11.5	74,854,956	13,343	0.0178	99.9822	0.9976	11.5	72,292,752	13,343	0.0185	99.9815	0.9975	
12.5	72,655,660	6,052	0.0083	99.9917	0.9974	12.5	70,174,403	6,052	0.0086	99.9914	0.9973	
13.5	48,005,364	6,407	0.0133	99.9867	0.9973	13.5	45,531,775	6,407	0.0141	99.9859	0.9972	
14.5	42,436,407	3,021	0.0071	99.9929	0.9972	14.5	40,126,073	3,021	0.0075	99.9925	0.9971	
15.5	41,795,342	1,619	0.0039	99.9961	0.9971	15.5	39,493,764	1,619	0.0041	99.9959	0.9970	
16.5	41,481,686	97,817	0.2358	99.7642	0.9971	16.5	39,201,939	97,817	0.2495	99.7505	0.9970	
17.5	39,382,051	0	0.0000	100.0000	0.9947	17.5	37,155,803	0	0.0000	100.0000	0.9945	
18.5	32,517,841	0	0.0000	100.0000	0.9947	18.5	30,311,465	0	0.0000	100.0000	0.9945	
19.5	29,763,620	56	0.0002	99.9998	0.9947	19.5	27,609,995	56	0.0002	99.9998	0.9945	
20.5	29,226,272	125,345	0.4289	99.5711	0.9947	20.5	27,598,622	125,345	0.4542	99.5458	0.9945	
21.5	26,530,123	147,312	0.5553	99.4447	0.9905	21.5	24,969,165	147,312	0.5900	99.4100	0.9900	
22.5	25,625,304	0	0.0000	100.0000	0.9850	22.5	24,069,542	0	0.0000	100.0000	0.9841	
23.5	24,294,449	28,774	0.1184	99.8816	0.9850	23.5	22,857,795	28,774	0.1259	99.8741	0.9841	
24.5	22,034,291	3,235	0.0147	99.9853	0.9838	24.5	20,598,449	3,235	0.0157	99.9843	0.9829	
25.5	16,931,172	3,041	0.0180	99.9820	0.9836	25.5	15,506,212	3,041	0.0196	99.9804	0.9827	
26.5	14,988,599	127,219	0.8488	99.1512	0.9835	26.5	13,568,027	127,219	0.9376	99.0624	0.9825	
27.5	14,572,747	99,766	0.6846	99.3154	0.9751	27.5	13,156,409	99,766	0.7583	99.2417	0.9733	
28.5	14,019,601	0	0.0000	100.0000	0.9684	28.5	12,605,465	0	0.0000	100.0000	0.9659	
29.5	12,635,141	0	0.0000	100.0000	0.9684	29.5	11,365,048	0	0.0000	100.0000	0.9659	
30.5	12,044,713	0	0.0000	100.0000	0.9684	30.5	10,774,903	0	0.0000	100.0000	0.9659	

31.5	11,364,277	0	0.0000	100.0000	0.9684	31.5	10,211,405	0	0.0000	100.0000	0.9659
32.5	10,177,305	0	0.0000	100.0000	0.9684	32.5	9,218,964	0	0.0000	100.0000	0.9659
33.5	9,994,613	2,686	0.0269	99.9731	0.9684	33.5	9,081,054	2,686	0.0296	99.9704	0.9659
34.5	9,778,643	0	0.0000	100.0000	0.9682	34.5	8,882,281	0	0.0000	100.0000	0.9657
35.5	8,436,424	0	0.0000	100.0000	0.9682	35.5	7,583,591	0	0.0000	100.0000	0.9657
36.5	8,167,046	39,885	0.4884	99.5116	0.9682	36.5	7,314,981	39,885	0.5452	99.4548	0.9657
37.5	7,702,733	0	0.0000	100.0000	0.9635	37.5	6,858,776	0	0.0000	100.0000	0.9604
38.5	6,642,907	90,214	1.3581	98.6419	0.9635	38.5	5,799,610	90,214	1.5555	98.4445	0.9604
39.5	6,303,944	3,904	0.0619	99.9381	0.9504	39.5	5,460,646	3,904	0.0715	99.9285	0.9454
40.5	6,264,292	0	0.0000	100.0000	0.9498	40.5	5,508,156	0	0.0000	100.0000	0.9448
41.5	5,741,062	0	0.0000	100.0000	0.9498	41.5	4,985,241	0	0.0000	100.0000	0.9448
42.5	5,652,714	0	0.0000	100.0000	0.9498	42.5	4,897,068	0	0.0000	100.0000	0.9448
43.5	5,310,897	2,750	0.0518	99.9482	0.9498	43.5	4,556,601	2,750	0.0604	99.9396	0.9448
44.5	4,816,074	49	0.0010	99.9990	0.9493	44.5	4,150,101	49	0.0012	99.9988	0.9442
45.5	4,652,538	4,006	0.0861	99.9139	0.9493	45.5	3,987,528	4,006	0.1005	99.8995	0.9442
46.5	4,369,470	718	0.0164	99.9836	0.9485	46.5	3,783,239	718	0.0190	99.9810	0.9432
47.5	3,753,854	0	0.0000	100.0000	0.9483	47.5	3,173,615	0	0.0000	100.0000	0.9431
48.5	3,591,899	0	0.0000	100.0000	0.9483	48.5	3,017,018	0	0.0000	100.0000	0.9431
49.5	3,420,062	1,796	0.0525	99.9475	0.9483	49.5	2,849,470	1,796	0.0630	99.9370	0.9431
50.5	2,792,892	0	0.0000	100.0000	0.9478	50.5	2,347,940	0	0.0000	100.0000	0.9425
51.5	2,611,799	0	0.0000	100.0000	0.9478	51.5	2,172,006	0	0.0000	100.0000	0.9425
52.5	2,558,198	2,116	0.0827	99.9173	0.9478	52.5	2,141,093	2,116	0.0988	99.9012	0.9425
53.5	2,479,141	14,047	0.5666	99.4334	0.9470	53.5	2,121,916	14,047	0.6620	99.3380	0.9415
54.5	2,457,427	0	0.0000	100.0000	0.9417	54.5	2,108,841	0	0.0000	100.0000	0.9353
55.5	2,294,171	0	0.0000	100.0000	0.9417	55.5	1,956,553	0	0.0000	100.0000	0.9353
56.5	2,287,531	103	0.0045	99.9955	0.9417	56.5	1,979,824	103	0.0052	99.9948	0.9353
57.5	2,265,597	1	0.0001	99.9999	0.9416	57.5	1,958,284	1	0.0001	99.9999	0.9353
58.5	2,225,307	0	0.0000	100.0000	0.9416	58.5	1,931,145	0	0.0000	100.0000	0.9353
59.5	2,205,435	72	0.0032	99.9968	0.9416	59.5	1,929,299	72	0.0037	99.9963	0.9353
60.5	2,153,449	0	0.0000	100.0000	0.9416	60.5	1,909,457	0	0.0000	100.0000	0.9352
61.5	1,627,577	0	0.0000	100.0000	0.9416	61.5	1,421,897	0	0.0000	100.0000	0.9352
62.5	1,560,885	0	0.0000	100.0000	0.9416	62.5	1,371,374	0	0.0000	100.0000	0.9352
63.5	1,555,689	0	0.0000	100.0000	0.9416	63.5	1,376,933	0	0.0000	100.0000	0.9352
64.5	1,436,582	794	0.0553	99.9447	0.9416	64.5	1,280,018	794	0.0620	99.9380	0.9352
65.5	1,434,975	0	0.0000	100.0000	0.9411	65.5	1,278,411	0	0.0000	100.0000	0.9346
66.5	1,424,702	0	0.0000	100.0000	0.9411	66.5	1,424,702	0	0.0000	100.0000	0.9346
67.5	1,420,314	0	0.0000	100.0000	0.9411	67.5	1,420,314	0	0.0000	100.0000	0.9346
68.5	1,416,338	0	0.0000	100.0000	0.9411	68.5	1,416,338	0	0.0000	100.0000	0.9346

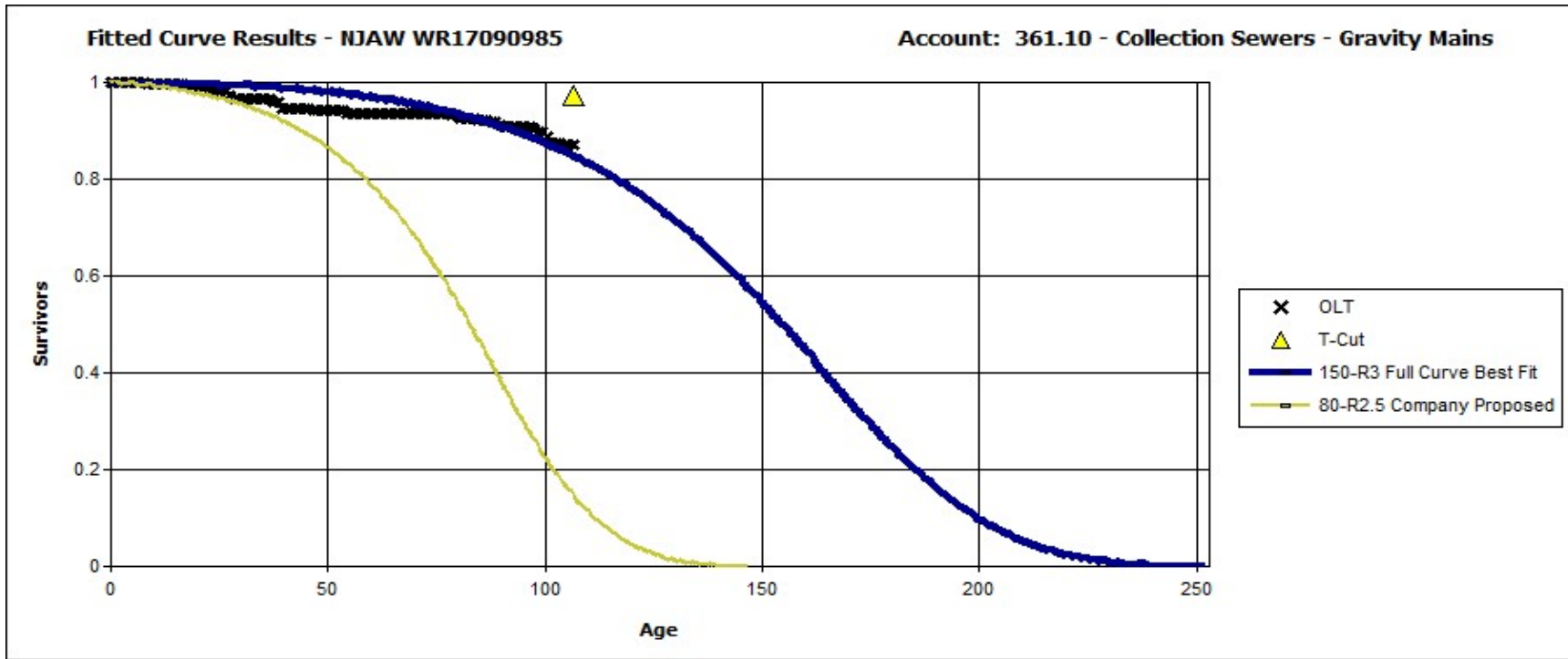
69.5	1,414,136	0	0.0000	100.0000	0.9411	69.5	1,414,136	0	0.0000	100.0000	0.9346
70.5	1,270,093	0	0.0000	100.0000	0.9411	70.5	1,270,093	0	0.0000	100.0000	0.9346
71.5	1,269,810	0	0.0000	100.0000	0.9411	71.5	1,269,810	0	0.0000	100.0000	0.9346
72.5	1,152,871	0	0.0000	100.0000	0.9411	72.5	1,152,871	0	0.0000	100.0000	0.9346
73.5	958,341	0	0.0000	100.0000	0.9411	73.5	958,341	0	0.0000	100.0000	0.9346
74.5	913,559	0	0.0000	100.0000	0.9411	74.5	913,559	0	0.0000	100.0000	0.9346
75.5	896,362	254	0.0283	99.9717	0.9411	75.5	896,362	254	0.0283	99.9717	0.9346
76.5	852,832	0	0.0000	100.0000	0.9408	76.5	852,832	0	0.0000	100.0000	0.9344
77.5	852,065	1,766	0.2073	99.7927	0.9408	77.5	852,065	1,766	0.2073	99.7927	0.9344
78.5	842,191	731	0.0868	99.9132	0.9389	78.5	842,191	731	0.0868	99.9132	0.9324
79.5	840,801	4,753	0.5653	99.4347	0.9380	79.5	840,801	4,753	0.5653	99.4347	0.9316
80.5	836,048	148	0.0177	99.9823	0.9327	80.5	836,048	148	0.0177	99.9823	0.9264
81.5	748,738	0	0.0000	100.0000	0.9326	81.5	748,738	0	0.0000	100.0000	0.9262
82.5	748,423	46	0.0062	99.9938	0.9326	82.5	748,423	46	0.0062	99.9938	0.9262
83.5	748,202	2,890	0.3863	99.6137	0.9325	83.5	748,202	2,890	0.3863	99.6137	0.9261
84.5	743,962	0	0.0000	100.0000	0.9289	84.5	743,962	0	0.0000	100.0000	0.9226
85.5	664,563	1,458	0.2194	99.7806	0.9289	85.5	664,563	1,458	0.2194	99.7806	0.9226
86.5	662,252	786	0.1186	99.8814	0.9269	86.5	662,252	786	0.1186	99.8814	0.9205
87.5	584,908	0	0.0000	100.0000	0.9258	87.5	584,908	0	0.0000	100.0000	0.9195
88.5	578,928	4,106	0.7092	99.2908	0.9258	88.5	578,928	4,106	0.7092	99.2908	0.9195
89.5	569,465	2,049	0.3599	99.6401	0.9192	89.5	569,465	2,049	0.3599	99.6401	0.9129
90.5	563,127	40	0.0071	99.9929	0.9159	90.5	563,127	40	0.0071	99.9929	0.9096
91.5	439,374	0	0.0000	100.0000	0.9158	91.5	439,374	0	0.0000	100.0000	0.9096
92.5	434,215	118	0.0271	99.9729	0.9158	92.5	434,215	118	0.0271	99.9729	0.9096
93.5	411,526	87	0.0211	99.9789	0.9156	93.5	411,526	87	0.0211	99.9789	0.9093
94.5	351,641	375	0.1067	99.8933	0.9154	94.5	351,641	375	0.1067	99.8933	0.9091
95.5	342,759	142	0.0416	99.9584	0.9144	95.5	342,759	142	0.0416	99.9584	0.9082
96.5	337,514	1,357	0.4021	99.5979	0.9140	96.5	337,514	1,357	0.4021	99.5979	0.9078
97.5	307,168	2,184	0.7111	99.2889	0.9104	97.5	307,168	2,184	0.7111	99.2889	0.9041
98.5	304,591	249	0.0818	99.9182	0.9039	98.5	304,591	249	0.0818	99.9182	0.8977
99.5	291,190	2,975	1.0218	98.9782	0.9031	99.5	291,190	2,975	1.0218	98.9782	0.8970
100.5	270,188	3,930	1.4545	98.5455	0.8939	100.5	270,188	3,930	1.4545	98.5455	0.8878
101.5	234,115	13	0.0056	99.9944	0.8809	101.5	234,115	13	0.0056	99.9944	0.8749
102.5	195,789	148	0.0757	99.9243	0.8809	102.5	195,789	148	0.0757	99.9243	0.8749
103.5	179,481	368	0.2052	99.7948	0.8802	103.5	179,481	368	0.2052	99.7948	0.8742
104.5	172,488	28	0.0165	99.9835	0.8784	104.5	172,488	28	0.0165	99.9835	0.8724
105.5	156,564	0	0.0000	100.0000	0.8783	105.5	156,564	0	0.0000	100.0000	0.8723
106.5	156,564	5,220	3.3343	96.6657	0.8783	106.5	156,564	5,220	3.3343	96.6657	0.8723

Best Fit Curve Results**NJAW WR17090985****Account: 361.10 - Collection Sewers - Gravity Mains**

Curve	Life	Sum of Squared Differences
BAND	1976 - 2016	
R3	150.0	531.704
R2.5	150.0	629.053
S2	150.0	1,046.686
L3	150.0	1,049.507
R4	132.0	1,133.621
S3	140.0	1,383.772
S1.5	150.0	1,449.567
L4	133.0	1,466.522
R2	150.0	1,665.073
S4	126.0	1,974.519
R5	120.0	2,008.262
L5	123.0	2,071.812
S5	118.0	2,524.494
S1	150.0	2,768.613
S6	113.0	3,043.863
L2	150.0	3,226.501
R1.5	150.0	3,981.689
SQ	107.0	4,321.614
S0.5	150.0	4,949.072
L1.5	150.0	6,097.319
R1	150.0	7,654.501
S0	150.0	8,336.350
L1	150.0	10,744.696
R0.5	150.0	13,836.712
S-0.5	150.0	14,064.803
L0.5	150.0	15,921.863
O1	150.0	21,978.384
L0	150.0	22,729.429
O2	150.0	30,507.228
O3	150.0	67,033.191
O4	150.0	114,685.279

Analytical Parameters

OLT Placement Band: 1909 - 2016
 OLT Experience Band: 1976 - 2016
 Minimum Life Parameter 4
 Maximum Life Parameter 150
 Life Increment Parameter 1
 Max Age (T-Cut): 106.5



Analytical Parameters

OLT Placement Band:	1909 - 2016
OLT Experience Band:	1976 - 2016
Minimum Life Parameter:	4
Maximum Life Parameter:	150
Life Increment Parameter:	1
Max Age (T-Cut):	108.0

NJAW WR17090985

361.10 - Collection Sewers - Gravity Mains

Calculation of Remaining Life
Based Upon Broad Group/Vintage Group Procedures
Related to Original Cost as of December 31, 2016

Survivor Curve .. IOWA:		150	R3			
<u>Year</u>	<u>Age</u>	<u>Surviving Investment</u>	<u>BG/VG Average</u>		<u>ASL Weights</u>	<u>RL Weights</u>
			<u>Service Life</u>	<u>Remaining Life</u>		
(1)	(2)	(3)	(4)	(5)	(6)=(3)/(4)	(7)=(6)*(5)
2016	0.5	4,427,893	150.00	149.50	29,519	4,413,261
2015	1.5	11,785,362	150.00	148.52	78,569	11,669,058
2014	2.5	2,867,429	150.00	147.54	19,116	2,820,332
2013	3.5	2,615,356	150.00	146.55	17,436	2,555,264
2012	4.5	5,709,445	150.00	145.57	38,063	5,540,877
2011	5.5	2,341,330	150.00	144.59	15,609	2,256,895
2010	6.5	2,228,511	150.00	143.61	14,857	2,133,584
2009	7.5	5,327,476	150.00	142.63	35,517	5,065,756
2008	8.5	10,614,820	150.00	141.65	70,765	10,024,150
2007	9.5	7,938,495	150.00	140.68	52,923	7,445,037
2006	10.5	11,980,261	150.00	139.70	79,868	11,157,582
2005	11.5	636,431	150.00	138.72	4,243	588,591
2004	12.5	2,185,953	150.00	137.75	14,573	2,007,445
2003	13.5	24,644,244	150.00	136.78	164,295	22,471,877
2002	14.5	5,562,550	150.00	135.81	37,084	5,036,200
2001	15.5	638,043	150.00	134.84	4,254	573,542
2000	16.5	312,037	150.00	133.87	2,080	278,476
1999	17.5	2,001,818	150.00	132.90	13,345	1,773,599
1998	18.5	6,864,211	150.00	131.93	45,761	6,037,424
1997	19.5	2,754,221	150.00	130.97	18,361	2,404,749
1996	20.5	537,292	150.00	130.00	3,582	465,667
1995	21.5	2,570,804	150.00	129.04	17,139	2,211,602
1994	22.5	757,507	150.00	128.08	5,050	646,811
1993	23.5	1,330,855	150.00	127.12	8,872	1,127,868
1992	24.5	2,231,384	150.00	126.16	14,876	1,876,798
1991	25.5	5,099,884	150.00	125.21	33,999	4,256,944
1990	26.5	1,939,532	150.00	124.25	12,930	1,606,618
1989	27.5	288,633	150.00	123.30	1,924	237,257
1988	28.5	453,380	150.00	122.35	3,023	369,803
1987	29.5	1,384,460	150.00	121.40	9,230	1,120,488

1986	30.5	590,429	150.00	120.45	3,936	474,123
1985	31.5	680,436	150.00	119.51	4,536	542,108
1984	32.5	1,186,972	150.00	118.56	7,913	938,204
1983	33.5	182,692	150.00	117.62	1,218	143,256
1982	34.5	213,284	150.00	116.68	1,422	165,907
1981	35.5	1,342,219	150.00	115.74	8,948	1,035,682
1980	36.5	269,378	150.00	114.81	1,796	206,176
1979	37.5	424,428	150.00	113.87	2,830	322,204
1978	38.5	1,059,826	150.00	112.94	7,066	797,988
1977	39.5	248,749	150.00	112.01	1,658	185,752
1976	40.5	35,748	150.00	111.08	238	26,474
1975	41.5	523,230	150.00	110.16	3,488	384,256
1974	42.5	88,348	150.00	109.24	589	64,339
1973	43.5	341,817	150.00	108.31	2,279	246,825
1972	44.5	492,073	150.00	107.40	3,280	352,315
1971	45.5	163,486	150.00	106.48	1,090	116,054
1970	46.5	279,062	150.00	105.57	1,860	196,398
1969	47.5	614,898	150.00	104.66	4,099	429,020
1968	48.5	161,955	150.00	103.75	1,080	112,017
1967	49.5	171,836	150.00	102.84	1,146	117,812
1966	50.5	625,375	150.00	101.94	4,169	424,998
1965	51.5	181,093	150.00	101.04	1,207	121,981
1964	52.5	53,602	150.00	100.14	357	35,784
1963	53.5	76,941	150.00	99.24	513	50,906
1962	54.5	7,667	150.00	98.35	51	5,027
1961	55.5	163,256	150.00	97.46	1,088	106,072
1960	56.5	6,640	150.00	96.57	44	4,275
1959	57.5	21,831	150.00	95.69	146	13,927
1958	58.5	40,289	150.00	94.81	269	25,464
1957	59.5	19,873	150.00	93.93	132	12,444
1956	60.5	51,914	150.00	93.05	346	32,204
1955	61.5	525,873	150.00	92.18	3,506	323,154
1954	62.5	66,692	150.00	91.31	445	40,596
1953	63.5	5,196	150.00	90.44	35	3,133
1952	64.5	119,107	150.00	89.57	794	71,126
1951	65.5	813	150.00	88.71	5	481
1950	66.5	10,273	150.00	87.86	68	6,017
1949	67.5	4,388	150.00	87.00	29	2,545
1948	68.5	3,976	150.00	86.15	27	2,284
1947	69.5	2,202	150.00	85.30	15	1,252
1946	70.5	144,043	150.00	84.45	960	81,099
1945	71.5	283	150.00	83.61	2	158
1944	72.5	116,939	150.00	82.77	780	64,528
1943	73.5	194,530	150.00	81.93	1,297	106,257
1942	74.5	44,782	150.00	81.10	299	24,213
1941	75.5	17,197	150.00	80.27	115	9,203
1940	76.5	43,276	150.00	79.44	289	22,920

1939	77.5	768	150.00	78.62	5	402
1938	78.5	8,107	150.00	77.80	54	4,205
1937	79.5	660	150.00	76.98	4	339
1936	80.5	0	150.00	76.17	0	0
1935	81.5	87,161	150.00	75.36	581	43,792
1934	82.5	316	150.00	74.56	2	157
1933	83.5	175	150.00	73.75	1	86
1932	84.5	1,350	150.00	72.96	9	657
1931	85.5	79,399	150.00	72.16	529	38,195
1930	86.5	853	150.00	71.37	6	406
1929	87.5	76,558	150.00	70.58	510	36,023
1928	88.5	5,980	150.00	69.79	40	2,782
1927	89.5	5,358	150.00	69.01	36	2,465
1926	90.5	4,289	150.00	68.23	29	1,951
1925	91.5	123,713	150.00	67.46	825	55,637
1924	92.5	5,158	150.00	66.69	34	2,293
1923	93.5	22,571	150.00	65.92	150	9,920
1922	94.5	59,798	150.00	65.16	399	25,976
1921	95.5	8,507	150.00	64.40	57	3,652
1920	96.5	5,102	150.00	63.65	34	2,165
1919	97.5	28,989	150.00	62.89	193	12,155
1918	98.5	393	150.00	62.15	3	163
1917	99.5	13,152	150.00	61.41	88	5,384
1916	100.5	18,027	150.00	60.66	120	7,291
1915	101.5	32,143	150.00	59.93	214	12,842
1914	102.5	38,313	150.00	59.20	255	15,121
1913	103.5	16,160	150.00	58.47	108	6,299
1912	104.5	6,624	150.00	57.75	44	2,550
1911	105.5	15,896	150.00	57.03	106	6,044
1910	106.5	0	150.00	56.32	0	0
1909	107.5	151,343	150.00	55.61	1,009	56,106

142,465,394

949,769 128,977,572

AVERAGE SERVICE LIFE	150.00
AVERAGE REMAINING LIFE	135.80

JSG APPENDIX

Experience

Snaveley, King, Majoros, and Associates, Inc.

Consultant (2010-Present)

Mr. Garren provides expert witness testimony to clients, specializing in the area of depreciation. Mr. Garren also provides analytical support to SK clients and principals including quantitative and qualitative analysis, preparation of client presentations, and case management. Mr. Garren works primarily in the areas of depreciation but has also prepared exhibits for use in the revenue requirement, cost-allocation, rate design, and rate of return aspects of regulatory proceedings. Mr. Garren has also assisted with the preparation of two valuation studies on municipal water companies.

Mr. Garren is a member of, and has been made a Certified Depreciation Professional, by the Society of Depreciation Professionals.

Issue Advocacy Organization

State Policies Assistant 2009

Assisted with a wide variety of tasks including, but not limited to research, updating organization website with current news, extensive member/supporter communication, and database maintenance.

Binder and Binder, LLC

Client Advocate/Non-Attorney Representative 2007-2008

Mr. Garren's primary duties at Binder were legal writing; producing client and ALJ correspondence, case memoranda, expert witness interrogatories, and arguments in favor of appeal. From July 2007 acted as the company president's primary legal writer. In June of 2007, Mr. Garren became certified as a non-attorney representative. From that time, responsibilities included performing three to five Social Security Disability hearings per week.

Mr. Garren was also responsible for thoroughly developing medical and vocational evidence from the initial filing phase, through Administrative hearing.

Education

Marlboro College, Marlboro, Vermont, B.A. - Literature and Philosophy

Mr. Garren fulfilled Marlboro College's graduation requirement with a thesis on ethical issues in the works of Dostoevsky and Nietzsche. Exploring early post-modern ethical thinking in literature and philosophy.

James Shay Garren

PROJECTS AND APPEARANCES

Testified

Georgia Power Company's 2013 Rate Case - Docket No. 36989

Rockland Electric Company for approval of changes in electric rates, its tariff for electric service, and its depreciation rate. - BPU Docket No. ER13111135

Mountaineer Gas Filing to Increase Rates and Charges and Proposed Charges in Depreciation Rates. West Virginia Case No. 15-0048-G-D.

Case No. 9355: Application of Baltimore Gas and Electric Company for Adjustments to its Electric and Gas Base Rates

Application of Maryland-American Water Company for Authority to Adjust its Existing Schedule Tariffs and Rates (Cost Allocation and Rate Design and Depreciation)

Pepco 2015 Depreciation Rate Case No. 9385

Original Tariff UGI Utilities, INC. – Gas Division – PA P.U.C. NO. 6 DOCKET NO. R-2015-2518438

Pacific Gas and Electric Co 2017 GRC Application 15-09

First Energy PA Companies, PA PUC Docket Nos. R-2016-2537349, 2537352, 2537355, 2537359

Application of Public Service Co. of Colorado, Proceeding No. 16A-0231E

Application of Columbia Gas to the Maryland PSC Case No. 9447

Application of Pacific Gas and Electric for changes to its rates, FERC Docket No. ER16-2320-002

Application of Hawai'i Electric Company, Hawai'i Electric Light Company, and Maui Electric Company Docket 2016-0431