



Amanda Klein

Director, Regulatory Affairs

Toronto Hydro-Electric System Limited

14 Carlton Street

Toronto, Ontario M5B 1K5

Telephone: 416.542.2729

Facsimile: 416.542.3024

regulatoryaffairs@torontohydro.com

www.torontohydro.com

November 28, 2012

via RESS e-filing – signed original to follow by courier

Ms. Kirsten Walli

Board Secretary

Ontario Energy Board

PO Box 2319

2300 Yonge Street, 27th floor

Toronto, ON M4P 1E4

Dear Ms. Walli:

**Re: Toronto Hydro-Electric System Limited (“THESL”)
OEB File No. EB-2012-0064 (the “Application”)
Outstanding Responses to Undertakings**

THESL writes in respect of the above-noted proceeding.

Further to THESL’s letter of November 27, 2012, THESL encloses written responses to the Technical Conference Undertakings JT2.10 and JT2.18. Also provided are updated written responses to Technical Conference Undertakings JT2.11 and JT2.12 and corrected responses to Energy Probe interrogatories 39 and 44.

Also, please note that THESL has submitted to the OEB's reporting service individual corrections to the transcripts arising from the November 21 and 23 technical conference. THESL notes that, on page 123 of the transcript from November 21, a document was introduced that was not previously in evidence. THESL has indicated in its notes to the transcript where it believes this new exhibit should be noted.

Please do not hesitate to contact me if you have any questions.

Yours truly,

[original signed by]

Amanda Klein

Director, Regulatory Affairs

Toronto Hydro-Electric System Limited

regulatoryaffairs@torontohydro.com

:AK/RB

cc: Fred Cass of Aird & Berlis LLP, Counsel for THESL, by electronic mail only
Intervenors of Record for EB-2012-0064 by electronic mail only

RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION INTERROGATORIES ON ISSUE 2.2

1 **INTERROGATORY 39:**

2 **Reference(s):** **Tab 4, Sch. B6 Rear Lot Construction**

3

4 Notwithstanding THESL's opinion that Option 3 Front Lot Overhead could never be
5 implemented, please prepare the business case evaluation for this option and include the
6 results in Table 1 on Page 10 so that the Board and Intervenors have a complete record of
7 all options for consideration.

8

9 **RESPONSE:**

10 Please see revised Table 1 to include Option 3 results generated from the FIM model.

11

12 Please note that errors were discovered in the analysis performed which generated the
13 originally submitted numbers to answer this interrogatory. The errors can be summarized
14 as:

- 15 1. The Non Asset Risk (NAR) had been miscalculated for the existing Rear Lot
16 assets in Options 1 – 3.
- 17 2. The Secondary Service Cost included in the Upfront Project Cost had been
18 miscalculated for Option #3

19

20 In addition, there have also been adjustments to the 2012 to 2014 Upfront Project Cost
21 for Option 4 from the originally filed \$66.14M to \$60.88M. These costing adjustments
22 are as per the evidentiary update filed on October 31st, 2012, and are further explained as
23 part of the "Addendum to Manager's Summary – Summary of Updated Evidence" (Tab
24 2, Page 4, Line 10).

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

Business Case Element	Estimated Cost (in Millions)
Option 1: Status Quo (Remediation on a As-Needed Basis) Cost of Ownership of Existing Rear Lot Construction [COO _E]	\$111.11
Option 2: Like-for-Like Replacement of Existing O/H Rear Lot with New O/H Rear Lot Cost of Ownership of New O/H Rear Lot [COO _{RL}]	\$105.53
Option 3: Replacement of Existing O/H Rear Lot with New O/H Front Lot Cost of Ownership of New O/H Front Lot [COO _{OH}]	\$68.91
Option 4: Replacement of Existing O/H Rear Lot with New U/G Front Lot Cost of Ownership of New U/G Front Lot [COO _{UG}]	\$11.98
Upfront Project Cost (Option 1) [COST _E]	\$0
Upfront Project Cost (Option 2) [COST _{RL}]	\$7.36
Upfront Project Cost (Option 3) [COST _{OH}]	\$34.15
Upfront Project Cost (Option 4) [COST _{UG}]	\$60.88
Option 2 versus Option 1 NPV [(COO_E - COO_{RL}) - COST_{RL}]	-\$1.78
Option 3 versus Option 1 NPV [(COO_E - COO_{OH}) - COST_{OH}]	\$8.05
Option 4 versus Option 1 NPV [(COO_E - COO_{UG}) - COST_{UG}]	\$38.25
Non-quantified benefits of Option 4 include: Increased employee and public safety and enhanced property values	

RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION INTERROGATORIES ON ISSUE 2.2

1 **INTERROGATORY 44:**

2 **Reference(s):** **Tab 4, Sch. B6 Rear Lot Construction Appendix A – NPV**
3 **Calculations and BCE Overview**
4

5 Tables A1, A2 and A3 on Pages 71 and 72 show the results of the business case
6 evaluation for the three options considered.
7

8 **a) Please add a fourth table to show the results of the front lot overhead evaluation**
9 **requested above.**
10

11 **RESPONSE:**

12 a) Table 1 below reflects Option 3 (Replacement of Existing O/H Rear Lot with New
13 O/H Front Lot:
14

15 Please note that errors were discovered in the analysis performed which generated the
16 originally submitted numbers to answer this interrogatory. The errors can be
17 summarized as:

- 18 1. The Non Asset Risk (NAR) had been miscalculated for the existing Rear Lot
19 assets in Options 1 and 3.
- 20 2. The secondary service cost included in the Upfront Project Cost had been
21 miscalculated for option #3.
22

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

1

2 **Table 1 – O/H Front Lot Construction Results (Estimated Cost in Millions)**

Business Case Element	Estimated Cost (in Millions)
OPTION 1	
Cost of Ownership of Existing Rear Lot Construction (COO_E)	
Projected risk cost of existing rear lot (NPV)	\$7.95
Projected non-asset risk cost of existing rear lot (NPV)	\$102.48
Maintenance cost of existing rear lot	\$0.68
TOTAL (COO_E)	\$111.11
OPTION 3	
Cost of Ownership of New Standardized Overhead Front Lot Construction (COO_N)	
Projected risk cost of overhead front lot (NPV)	\$1.78
Projected non-asset risk cost of overhead front lot (NPV)	\$66.45
Maintenance cost of overhead front lot	\$0.68
TOTAL (COO_N)	\$68.91
PROJECT COST	\$34.15
PROJECT NPV	\$8.05

3

4

5

6

Note that the maintenance costs of Options 1 and 3 are held equal as a simplifying assumption. Actual maintenance costs for Option 1 are expected to be higher due to accessibility constraints in rear lot areas. Incorporating this effect would likely increase the total cost of ownership (COO_E) for option 1.

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

- 1 **b) For each option in the BCE, please provide the complete ICM model inputs and**
 2 **outputs used to arrive at the**
 3 **1. Projected asset risk cost,**
 4 **2. Projected non asset risk cost, and**
 5 **3. Maintenance cost.**

6
 7 **RESPONSE:**

- 8 b) The complete inputs and outputs for each option within the Rear Lot Business Case
 9 Evaluation as provided below:

10
 11 **Option 1: Status Quo**

12 **Table 1:** Input data for Projected Risk Cost of Existing Rear Lot

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
560962	Overhead Switch	0	\$29,854
560963	Overhead Switch	0	\$39,908
560964	Overhead Switch	0	\$39,908
561033	Overhead Switch	0	\$2,448
561034	Overhead Switch	0	\$6,269
561035	Overhead Switch	0	\$6,383
561036	Overhead Switch	0	\$2,448
561037	Overhead Switch	0	\$2,575
561038	Overhead Switch	0	\$2,626
561039	Overhead Switch	0	\$2,592
561042	Overhead Switch	0	\$2,448
561043	Overhead Switch	0	\$2,409

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
561044	Overhead Switch	0	\$2,448
561508	Overhead Switch	0	\$28,349
561560	Overhead Switch	0	\$6,119
561575	Overhead Switch	0	\$2,487
561581	Overhead Switch	0	\$2,467
561584	Overhead Switch	0	\$7,959
561585	Overhead Switch	0	\$6,881
561587	Overhead Switch	0	\$2,448
563676	Overhead Switch	0	\$37,977
563688	Overhead Switch	0	\$37,974
563733	Overhead Switch	0	\$2,720
563734	Overhead Switch	0	\$2,750
563756	Overhead Switch	0	\$3,230
563757	Overhead Switch	0	\$2,325
563794	Overhead Switch	0	\$2,467
563796	Overhead Switch	0	\$2,592
564249	Overhead Switch	0	\$37,721
564265	Overhead Switch	0	\$35,677
564268	Overhead Switch	0	\$37,110
564270	Overhead Switch	0	\$37,128
564271	Overhead Switch	0	\$37,110
564272	Overhead Switch	0	\$37,110
564273	Overhead Switch	0	\$35,657
564276	Overhead Switch	0	\$37,292
564331	Overhead Switch	0	\$35,661
564332	Overhead Switch	0	\$37,126
564333	Overhead Switch	0	\$35,657

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
564361	Overhead Switch	0	\$2,409
564362	Overhead Switch	0	\$6,352
564365	Overhead Switch	0	\$2,592
564369	Overhead Switch	0	\$25,254
564373	Overhead Switch	0	\$7,186
564376	Overhead Switch	0	\$2,504
564379	Overhead Switch	0	\$2,806
564381	Overhead Switch	0	\$2,720
564382	Overhead Switch	0	\$2,409
564383	Overhead Switch	0	\$2,523
564384	Overhead Switch	0	\$2,689
564385	Overhead Switch	0	\$2,487
564386	Overhead Switch	0	\$2,659
564388	Overhead Switch	0	\$2,503
564391	Overhead Switch	0	\$2,448
564392	Overhead Switch	0	\$2,559
564394	Overhead Switch	0	\$6,150
564439	Overhead Switch	0	\$2,559
564440	Overhead Switch	1	\$6,614
564817	Overhead Switch	0	\$6,437
564878	Overhead Switch	0	\$3,230
564879	Overhead Switch	0	\$2,626
564911	Overhead Switch	0	\$3,230
565025	Overhead Switch	0	\$6,695
565084	Overhead Switch	0	\$2,409
1666914	Overhead Switch	0	\$2,659
1666915	Overhead Switch	0	\$7,513

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
1666923	Overhead Switch	0	\$22,816
1666940	Overhead Switch	0	\$9,105
1666944	Overhead Switch	0	\$2,540
1666959	Overhead Switch	0	\$2,476
1666968	Overhead Switch	0	\$2,559
1666993	Overhead Switch	8	\$5,415
1666994	Overhead Switch	2	\$2,328
1667185	Overhead Switch	0	\$2,720
1667212	Overhead Switch	7	\$2,116
1667215	Overhead Switch	0	\$9,105
1667236	Overhead Switch	0	\$9,105
1667261	Overhead Switch	12	\$4,843
1667262	Overhead Switch	7	\$2,116
1667263	Overhead Switch	0	\$9,105
14074773	Overhead Switch	0	\$27,283
14083222	Overhead Switch	7	\$2,116
14083223	Overhead Switch	4	\$2,469
14083224	Overhead Switch	2	\$2,605
14083225	Overhead Switch	6	\$2,194
14083629	Overhead Switch	0	\$27,283
14083630	Overhead Switch	0	\$27,283
14083640	Overhead Switch	0	\$2,672
14083644	Overhead Switch	0	\$27,806
14083662	Overhead Switch	0	\$2,689
14083671	Overhead Switch	0	\$2,626
14083672	Overhead Switch	0	\$2,592
14083673	Overhead Switch	0	\$2,792

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
14083674	Overhead Switch	0	\$2,503
14083676	Overhead Switch	0	\$2,409
14083679	Overhead Switch	0	\$2,559
14083680	Overhead Switch	0	\$2,626
14083687	Overhead Switch	0	\$5,749
14083688	Overhead Switch	0	\$8,263
14083715	Overhead Switch	0	\$2,626
14083716	Overhead Switch	0	\$35,166
14083719	Overhead Switch	7	\$2,116
14083721	Overhead Switch	0	\$2,409
14083741	Overhead Switch	0	\$2,448
28020729	Overhead Switch	0	\$28,124
28020739	Overhead Switch	0	\$26,909
28020748	Overhead Switch	0	\$4,712
28020756	Overhead Switch	0	\$5,473
28020757	Overhead Switch	0	\$2,649
28021188	Overhead Switch	0	\$50,070
28021199	Overhead Switch	0	\$2,476
28021200	Overhead Switch	0	\$4,712
28021208	Overhead Switch	0	\$50,070
28021211	Overhead Switch	0	\$22,455
28021641	Overhead Switch	11	\$4,838
28021654	Overhead Switch	0	\$7,305
28150642	Overhead Switch	0	\$2,649
28150715	Overhead Switch	0	\$3,119
28830339	Overhead Switch	0	\$35,337
30399949	Overhead Switch	18	\$1,366

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
550038	Overhead Transformer	0	\$11,526
551173	Overhead Transformer	0	\$8,560
551421	Overhead Transformer	0	\$11,842
551424	Overhead Transformer	0	\$14,878
551426	Overhead Transformer	0	\$11,210
551427	Overhead Transformer	0	\$14,878
551433	Overhead Transformer	0	\$11,526
551435	Overhead Transformer	0	\$14,878
551441	Overhead Transformer	0	\$14,878
551442	Overhead Transformer	0	\$14,878
551445	Overhead Transformer	0	\$11,210
551446	Overhead Transformer	0	\$23,599
551752	Overhead Transformer	0	\$11,842
552147	Overhead Transformer	0	\$11,526
552188	Overhead Transformer	0	\$11,842
552189	Overhead Transformer	0	\$15,435
552212	Overhead Transformer	0	\$11,526
552213	Overhead Transformer	0	\$11,842
552214	Overhead Transformer	0	\$14,878
555153	Overhead Transformer	0	\$15,435
555154	Overhead Transformer	0	\$14,878
555171	Overhead Transformer	0	\$14,878
555178	Overhead Transformer	0	\$15,435
555181	Overhead Transformer	0	\$15,435
555251	Overhead Transformer	0	\$15,435
555255	Overhead Transformer	0	\$15,435
555259	Overhead Transformer	0	\$14,878

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
555327	Overhead Transformer	0	\$15,435
555328	Overhead Transformer	0	\$15,435
555340	Overhead Transformer	0	\$15,435
555422	Overhead Transformer	0	\$15,435
555423	Overhead Transformer	0	\$24,352
555428	Overhead Transformer	0	\$14,878
555429	Overhead Transformer	0	\$14,878
555430	Overhead Transformer	0	\$11,842
555434	Overhead Transformer	0	\$14,878
555435	Overhead Transformer	0	\$15,435
555437	Overhead Transformer	0	\$11,842
555438	Overhead Transformer	0	\$15,435
555440	Overhead Transformer	0	\$24,352
555441	Overhead Transformer	0	\$11,526
555445	Overhead Transformer	0	\$24,352
555446	Overhead Transformer	0	\$15,435
555447	Overhead Transformer	0	\$24,352
555452	Overhead Transformer	0	\$14,878
555453	Overhead Transformer	0	\$11,842
555998	Overhead Transformer	0	\$11,526
555999	Overhead Transformer	0	\$14,403
556000	Overhead Transformer	0	\$10,883
556004	Overhead Transformer	0	\$14,878
556010	Overhead Transformer	0	\$14,878
556011	Overhead Transformer	0	\$11,842
556012	Overhead Transformer	0	\$14,878
556013	Overhead Transformer	0	\$10,883

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
556125	Overhead Transformer	0	\$11,842
556126	Overhead Transformer	0	\$10,224
556128	Overhead Transformer	0	\$10,224
556133	Overhead Transformer	0	\$15,435
556134	Overhead Transformer	0	\$11,842
556136	Overhead Transformer	0	\$13,312
556140	Overhead Transformer	0	\$10,224
556144	Overhead Transformer	0	\$14,878
556175	Overhead Transformer	0	\$14,878
556176	Overhead Transformer	0	\$11,842
556177	Overhead Transformer	0	\$11,526
556179	Overhead Transformer	0	\$11,842
556190	Overhead Transformer	0	\$14,878
556207	Overhead Transformer	0	\$14,878
556208	Overhead Transformer	0	\$15,435
556209	Overhead Transformer	0	\$11,842
556212	Overhead Transformer	0	\$14,878
556213	Overhead Transformer	0	\$14,878
556214	Overhead Transformer	0	\$14,878
556215	Overhead Transformer	0	\$11,842
556219	Overhead Transformer	0	\$14,878
556220	Overhead Transformer	0	\$11,842
556221	Overhead Transformer	0	\$11,842
556223	Overhead Transformer	0	\$11,842
556224	Overhead Transformer	0	\$14,878
556225	Overhead Transformer	0	\$11,842
556228	Overhead Transformer	0	\$20,856

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
556234	Overhead Transformer	0	\$11,526
556242	Overhead Transformer	0	\$11,210
556390	Overhead Transformer	0	\$13,312
556433	Overhead Transformer	0	\$13,312
556441	Overhead Transformer	0	\$10,224
556443	Overhead Transformer	0	\$9,535
556475	Overhead Transformer	0	\$11,526
1756345	Overhead Transformer	0	\$10,063
1756346	Overhead Transformer	0	\$10,063
1756347	Overhead Transformer	0	\$7,528
1756359	Overhead Transformer	0	\$12,281
1756360	Overhead Transformer	0	\$7,528
1756361	Overhead Transformer	13	\$9,343
1756362	Overhead Transformer	0	\$13,378
1756383	Overhead Transformer	0	\$13,378
1756389	Overhead Transformer	0	\$12,281
1756390	Overhead Transformer	0	\$10,063
1756391	Overhead Transformer	0	\$9,415
1756392	Overhead Transformer	0	\$12,281
1756393	Overhead Transformer	0	\$10,063
1756394	Overhead Transformer	0	\$10,063
1756395	Overhead Transformer	0	\$10,063
1756399	Overhead Transformer	0	\$10,063
1756400	Overhead Transformer	0	\$9,415
1756402	Overhead Transformer	0	\$10,063
1756403	Overhead Transformer	0	\$12,281
1756404	Overhead Transformer	0	\$10,063

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
1756405	Overhead Transformer	0	\$10,063
1756406	Overhead Transformer	0	\$10,063
1756407	Overhead Transformer	0	\$10,063
1756408	Overhead Transformer	0	\$10,063
1756442	Overhead Transformer	0	\$12,281
1756443	Overhead Transformer	0	\$12,281
1756456	Overhead Transformer	0	\$10,063
1756553	Overhead Transformer	0	\$10,063
1756554	Overhead Transformer	0	\$13,378
1756555	Overhead Transformer	0	\$12,281
1756556	Overhead Transformer	0	\$10,063
1756557	Overhead Transformer	0	\$12,281
1756558	Overhead Transformer	0	\$9,415
1757139	Overhead Transformer	0	\$10,063
1757146	Overhead Transformer	0	\$11,424
1757149	Overhead Transformer	14	\$8,925
1757186	Overhead Transformer	0	\$8,579
1757195	Overhead Transformer	0	\$10,063
1757196	Overhead Transformer	0	\$8,579
1757197	Overhead Transformer	0	\$12,281
1757233	Overhead Transformer	0	\$8,579
1757238	Overhead Transformer	0	\$7,999
1757239	Overhead Transformer	0	\$8,579
1757241	Overhead Transformer	0	\$9,415
1757242	Overhead Transformer	0	\$10,063
1757243	Overhead Transformer	0	\$8,579
1757244	Overhead Transformer	0	\$8,579

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
1757245	Overhead Transformer	0	\$10,063
14130033	Overhead Transformer	0	\$7,999
14130034	Overhead Transformer	0	\$7,999
14130035	Overhead Transformer	0	\$8,579
14130040	Overhead Transformer	0	\$7,999
14130068	Overhead Transformer	0	\$7,413
14130069	Overhead Transformer	0	\$8,579
14130070	Overhead Transformer	0	\$11,424
14130071	Overhead Transformer	0	\$7,999
14130072	Overhead Transformer	0	\$7,999
14130073	Overhead Transformer	0	\$10,419
14130076	Overhead Transformer	0	\$8,579
14130696	Overhead Transformer	0	\$11,210
14130711	Overhead Transformer	0	\$15,435
14130712	Overhead Transformer	0	\$11,842
14130713	Overhead Transformer	0	\$14,878
14130714	Overhead Transformer	0	\$11,526
14130715	Overhead Transformer	0	\$11,210
14130716	Overhead Transformer	0	\$11,842
14130717	Overhead Transformer	0	\$11,842
14130718	Overhead Transformer	0	\$15,435
14130719	Overhead Transformer	0	\$11,842
14130720	Overhead Transformer	0	\$15,435
14130721	Overhead Transformer	0	\$15,435
14130722	Overhead Transformer	0	\$15,435
14130723	Overhead Transformer	0	\$15,435
14130724	Overhead Transformer	0	\$11,526

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
14130725	Overhead Transformer	0	\$11,526
14130726	Overhead Transformer	0	\$11,210
14130727	Overhead Transformer	0	\$14,878
14130728	Overhead Transformer	0	\$11,526
14130737	Overhead Transformer	0	\$15,435
14130752	Overhead Transformer	0	\$8,579
14130753	Overhead Transformer	0	\$11,424
14130754	Overhead Transformer	0	\$8,579
14130784	Overhead Transformer	0	\$11,526
14130787	Overhead Transformer	0	\$11,526
14130788	Overhead Transformer	0	\$15,435
14130789	Overhead Transformer	0	\$15,435
14130790	Overhead Transformer	0	\$15,435
14130793	Overhead Transformer	0	\$11,842
14130800	Overhead Transformer	0	\$15,435
14130801	Overhead Transformer	0	\$11,842
14130804	Overhead Transformer	0	\$8,579
14130806	Overhead Transformer	0	\$15,435
14131504	Overhead Transformer	0	\$39,847
26266383	Overhead Transformer	0	\$12,281
28029176	Overhead Transformer	0	\$20,271
28029177	Overhead Transformer	0	\$11,210
28029178	Overhead Transformer	0	\$15,435
28029179	Overhead Transformer	0	\$15,435
28029180	Overhead Transformer	0	\$11,842
28029181	Overhead Transformer	0	\$11,842
28029182	Overhead Transformer	0	\$15,435

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
28029183	Overhead Transformer	0	\$15,435
28029184	Overhead Transformer	0	\$15,435
28029185	Overhead Transformer	0	\$15,435
28029211	Overhead Transformer	0	\$74,865
28029212	Overhead Transformer	0	\$15,435
28029213	Overhead Transformer	0	\$20,542
28029214	Overhead Transformer	0	\$20,542
28029215	Overhead Transformer	0	\$15,435
28029229	Overhead Transformer	0	\$15,435
28029230	Overhead Transformer	0	\$15,435
28029232	Overhead Transformer	0	\$15,435
28029233	Overhead Transformer	0	\$11,842
28029234	Overhead Transformer	0	\$20,856
28029235	Overhead Transformer	0	\$11,538
28029236	Overhead Transformer	0	\$15,435
28029238	Overhead Transformer	0	\$74,865
28029273	Overhead Transformer	0	\$15,435
28029277	Overhead Transformer	0	\$15,435
28030012	Overhead Transformer	0	\$13,378
28030262	Overhead Transformer	0	\$8,449
28033538	Overhead Transformer	0	\$20,552
28033539	Overhead Transformer	0	\$15,435
28033540	Overhead Transformer	0	\$15,435
28033541	Overhead Transformer	0	\$11,842
28033738	Overhead Transformer	0	\$20,856
28033756	Overhead Transformer	0	\$16,923
28142774	Overhead Transformer	0	\$13,378

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
30447149	Overhead Transformer	0	\$11,842
225254	Poles	79	\$2,751
225257	Poles	28	\$11,926
225258	Poles	0	\$26,045
233279	Poles	3	\$18,617
233283	Poles	9	\$19,107
233285	Poles	29	\$12,097
233286	Poles	26	\$11,672
233294	Poles	26	\$11,672
233295	Poles	26	\$11,672
233413	Poles	23	\$11,216
233416	Poles	26	\$11,732
233417	Poles	26	\$11,732
233421	Poles	26	\$11,732
233422	Poles	49	\$7,007
237721	Poles	0	\$31,501
237728	Poles	0	\$34,127
237735	Poles	56	\$2,150
253640	Poles	58	\$5,048
253641	Poles	57	\$5,056
253642	Poles	68	\$3,612
253645	Poles	53	\$5,830
253662	Poles	30	\$11,200
253678	Poles	50	\$6,370
253679	Poles	46	\$7,568
253680	Poles	50	\$6,370
253681	Poles	50	\$6,370

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
254118	Poles	44	\$7,336
254121	Poles	59	\$5,438
254122	Poles	58	\$5,433
254124	Poles	58	\$5,433
254131	Poles	33	\$11,282
254132	Poles	44	\$7,936
254135	Poles	56	\$4,924
254141	Poles	38	\$8,722
254144	Poles	44	\$7,338
254146	Poles	44	\$7,335
254149	Poles	46	\$8,388
254152	Poles	45	\$7,230
254153	Poles	26	\$12,419
255475	Poles	56	\$1,843
255496	Poles	56	\$1,843
255516	Poles	50	\$7,582
255517	Poles	56	\$2,148
255518	Poles	56	\$2,148
258524	Poles	51	\$2,060
258528	Poles	51	\$2,098
258529	Poles	51	\$2,060
258530	Poles	15	\$10,753
258531	Poles	51	\$2,061
258532	Poles	15	\$10,753
258556	Poles	51	\$2,722
258557	Poles	0	\$12,821
258558	Poles	78	\$674

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
258559	Poles	6	\$11,787
258563	Poles	78	\$674
258854	Poles	78	\$1,158
258855	Poles	78	\$1,155
258856	Poles	78	\$1,169
258857	Poles	78	\$1,155
258858	Poles	78	\$1,158
258859	Poles	78	\$1,158
258860	Poles	78	\$1,158
258861	Poles	78	\$1,154
258869	Poles	78	\$1,158
258870	Poles	78	\$1,169
258891	Poles	56	\$2,024
258892	Poles	56	\$2,003
258894	Poles	56	\$2,003
258899	Poles	78	\$1,158
258900	Poles	78	\$1,154
258901	Poles	78	\$1,159
258902	Poles	78	\$1,158
258903	Poles	0	\$12,868
258904	Poles	78	\$1,158
258906	Poles	78	\$1,159
258907	Poles	56	\$2,635
258912	Poles	78	\$1,168
258938	Poles	56	\$2,628
258945	Poles	1	\$12,827
258946	Poles	56	\$2,616

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
258956	Poles	0	\$11,983
258997	Poles	0	\$12,020
259037	Poles	56	\$1,978
259038	Poles	56	\$2,001
259045	Poles	22	\$9,396
259046	Poles	0	\$15,505
259049	Poles	56	\$1,824
259050	Poles	56	\$1,800
259053	Poles	56	\$1,826
259054	Poles	0	\$12,733
259055	Poles	56	\$1,800
259056	Poles	56	\$1,824
259057	Poles	56	\$1,800
259071	Poles	0	\$26,056
259072	Poles	14	\$16,769
259073	Poles	0	\$11,285
259142	Poles	51	\$3,280
259143	Poles	51	\$3,256
259144	Poles	51	\$3,283
259147	Poles	51	\$3,280
259159	Poles	33	\$8,797
259188	Poles	51	\$2,018
259189	Poles	43	\$7,798
259191	Poles	51	\$1,991
259192	Poles	51	\$1,991
259210	Poles	51	\$2,063
259211	Poles	51	\$2,063

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
259217	Poles	51	\$2,755
259218	Poles	51	\$2,722
259219	Poles	16	\$11,328
259220	Poles	51	\$2,722
259221	Poles	29	\$8,302
259224	Poles	0	\$14,500
259225	Poles	13	\$11,077
259236	Poles	51	\$2,722
259237	Poles	51	\$1,903
259238	Poles	51	\$1,903
259240	Poles	51	\$1,939
259241	Poles	51	\$1,927
259246	Poles	9	\$10,508
259249	Poles	51	\$2,617
259252	Poles	51	\$2,566
259253	Poles	51	\$2,599
259254	Poles	46	\$7,520
259257	Poles	51	\$2,593
259267	Poles	3	\$18,336
259268	Poles	3	\$18,336
259269	Poles	0	\$18,579
259270	Poles	3	\$18,384
259272	Poles	3	\$18,336
259275	Poles	3	\$18,336
259276	Poles	3	\$18,336
259277	Poles	3	\$18,336
259280	Poles	2	\$19,558

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
259281	Poles	5	\$20,099
259283	Poles	51	\$2,013
259285	Poles	51	\$1,994
259294	Poles	0	\$9,364
259296	Poles	0	\$9,469
259297	Poles	0	\$13,504
259298	Poles	0	\$9,687
259299	Poles	0	\$9,980
259302	Poles	0	\$10,066
259305	Poles	0	\$10,254
259308	Poles	0	\$11,691
259309	Poles	3	\$19,259
259310	Poles	3	\$18,565
259312	Poles	3	\$18,384
259313	Poles	3	\$18,336
259315	Poles	3	\$18,566
259332	Poles	0	\$20,258
259343	Poles	51	\$1,994
259344	Poles	51	\$2,030
259345	Poles	26	\$8,451
259346	Poles	51	\$1,994
259347	Poles	51	\$1,994
259350	Poles	51	\$2,030
259830	Poles	78	\$1,379
259831	Poles	78	\$1,367
259833	Poles	78	\$1,616
259932	Poles	78	\$788

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
259933	Poles	78	\$1,368
259934	Poles	78	\$1,317
259935	Poles	78	\$788
259936	Poles	4	\$15,081
259938	Poles	78	\$1,379
259941	Poles	0	\$12,242
259946	Poles	78	\$1,367
259947	Poles	78	\$1,367
259949	Poles	78	\$1,366
259950	Poles	78	\$1,117
259974	Poles	0	\$19,801
259975	Poles	3	\$18,336
259976	Poles	0	\$20,948
259979	Poles	0	\$9,208
259980	Poles	0	\$17,666
259982	Poles	0	\$5,475
260080	Poles	27	\$8,556
260092	Poles	51	\$1,994
1204587	Poles	0	\$19,826
1204592	Poles	0	\$19,826
1204594	Poles	0	\$19,826
1204643	Poles	0	\$19,826
1204704	Poles	0	\$15,772
1204712	Poles	81	\$869
1204718	Poles	0	\$19,827
1204719	Poles	0	\$21,298
1204722	Poles	0	\$16,300

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
1206142	Poles	0	\$20,047
1206145	Poles	0	\$19,826
1206146	Poles	0	\$19,826
1206153	Poles	0	\$22,551
1206155	Poles	0	\$17,066
1206255	Poles	0	\$19,826
1206264	Poles	0	\$21,304
1206267	Poles	0	\$21,304
1206274	Poles	0	\$23,256
1206278	Poles	0	\$21,773
1206281	Poles	0	\$14,977
1206282	Poles	0	\$21,997
1206328	Poles	0	\$13,981
1206329	Poles	0	\$14,568
1206330	Poles	0	\$14,571
1206345	Poles	0	\$20,047
1206360	Poles	0	\$30,595
1206530	Poles	73	\$2,937
1206661	Poles	0	\$12,280
1206663	Poles	0	\$12,984
1206666	Poles	0	\$12,280
1206672	Poles	0	\$12,459
1206682	Poles	0	\$19,620
13418152	Poles	0	\$13,039
13418158	Poles	46	\$3,067
13418160	Poles	46	\$2,903
13418161	Poles	46	\$2,870

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
13418162	Poles	46	\$3,720
13418166	Poles	0	\$23,797
13418167	Poles	0	\$22,773
13418191	Poles	46	\$2,377
13418192	Poles	46	\$2,344
13418320	Poles	0	\$17,658
13418416	Poles	0	\$16,615
13418417	Poles	0	\$21,252
13418418	Poles	0	\$24,274
13418454	Poles	24	\$10,221
13418455	Poles	46	\$3,679
13418456	Poles	46	\$2,344
13418457	Poles	46	\$3,166
13418459	Poles	46	\$2,343
13418460	Poles	46	\$3,052
13418474	Poles	0	\$22,773
13418485	Poles	46	\$2,725
13418486	Poles	46	\$2,870
13418487	Poles	46	\$3,722
13418489	Poles	46	\$2,344
13418490	Poles	46	\$2,903
13418491	Poles	46	\$2,916
13418492	Poles	46	\$2,870
13418493	Poles	46	\$2,903
13418494	Poles	46	\$2,870
13418495	Poles	46	\$3,166
13418496	Poles	46	\$3,199

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
13418498	Poles	21	\$10,136
13418506	Poles	0	\$22,773
13418507	Poles	0	\$15,994
13418522	Poles	46	\$2,870
13418554	Poles	46	\$2,870
13418555	Poles	46	\$2,916
13418556	Poles	46	\$2,903
13418557	Poles	46	\$2,870
13418558	Poles	46	\$3,713
13418559	Poles	46	\$3,681
13418560	Poles	46	\$3,680
13418565	Poles	46	\$3,199
13418566	Poles	46	\$3,166
13418567	Poles	46	\$3,199
13418568	Poles	46	\$3,166
13418569	Poles	46	\$3,210
13418570	Poles	46	\$3,166
13418571	Poles	46	\$3,166
13418572	Poles	46	\$3,166
13418575	Poles	46	\$2,575
13418579	Poles	46	\$2,870
13418580	Poles	46	\$2,870
13418602	Poles	46	\$2,344
13418603	Poles	46	\$2,344
13418604	Poles	46	\$2,344
13418605	Poles	46	\$2,344
13418606	Poles	46	\$2,377

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
13418607	Poles	46	\$2,344
13418608	Poles	46	\$2,344
13418614	Poles	46	\$3,083
13418627	Poles	0	\$22,784
13418628	Poles	0	\$23,804
13418629	Poles	0	\$22,773
13418630	Poles	0	\$22,773
13418631	Poles	0	\$22,773
13418632	Poles	0	\$22,773
13418633	Poles	0	\$15,994
13418634	Poles	0	\$22,774
13418635	Poles	0	\$16,322
13418636	Poles	0	\$16,469
13418680	Poles	46	\$3,136
13418682	Poles	46	\$2,870
13418683	Poles	46	\$3,713
13418696	Poles	46	\$3,166
13418697	Poles	46	\$3,211
13418698	Poles	46	\$3,166
13418702	Poles	21	\$10,136
13418703	Poles	21	\$10,136
13418704	Poles	21	\$10,136
13418705	Poles	24	\$10,219
13420538	Poles	86	\$1,464
13420690	Poles	68	\$2,207
13420691	Poles	86	\$665
13420692	Poles	7	\$11,158

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
13420708	Poles	86	\$1,205
13420709	Poles	7	\$10,699
13420710	Poles	9	\$10,594
13420711	Poles	9	\$10,563
13420712	Poles	9	\$10,562
13420713	Poles	86	\$562
13420714	Poles	86	\$564
13420715	Poles	86	\$573
13420716	Poles	86	\$562
13420717	Poles	9	\$10,533
13420718	Poles	75	\$1,881
13420719	Poles	9	\$10,533
13420721	Poles	7	\$11,189
13420722	Poles	86	\$665
13420723	Poles	86	\$661
13420724	Poles	7	\$11,189
13420725	Poles	7	\$11,188
13420727	Poles	68	\$2,207
13420728	Poles	86	\$661
13420729	Poles	86	\$666
13420730	Poles	86	\$564
13420731	Poles	9	\$10,562
13420732	Poles	94	\$607
13420733	Poles	4	\$12,940
13420734	Poles	4	\$12,911
13420735	Poles	5	\$13,527
13420736	Poles	57	\$3,060

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
13420737	Poles	4	\$12,911
13420738	Poles	4	\$12,911
13420739	Poles	67	\$3,422
13420741	Poles	76	\$2,946
13420742	Poles	86	\$404
13420743	Poles	14	\$9,177
13420744	Poles	86	\$1,337
13420745	Poles	14	\$9,177
13420746	Poles	15	\$9,492
13420747	Poles	86	\$412
13420748	Poles	14	\$9,176
13420750	Poles	14	\$9,154
13420815	Poles	0	\$21,252
13420868	Poles	86	\$1,174
13420873	Poles	86	\$365
13420938	Poles	0	\$24,545
13420939	Poles	0	\$21,252
27412520	Poles	12	\$11,503
27412521	Poles	12	\$11,502
27413586	Poles	0	\$13,351
27413593	Poles	4	\$13,319
27417330	Poles	8	\$14,185
27417333	Poles	4	\$13,178
27417335	Poles	6	\$13,700
27418166	Poles	9	\$15,026
27418167	Poles	41	\$5,215
27418168	Poles	6	\$13,998

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
27418169	Poles	41	\$5,251
27418172	Poles	41	\$3,105
27418173	Poles	49	\$4,675
27418174	Poles	6	\$13,711
27418175	Poles	8	\$14,187
27418176	Poles	6	\$13,711
27418181	Poles	14	\$11,727
27418183	Poles	41	\$6,406
27418185	Poles	50	\$4,264
27418438	Poles	8	\$14,184
27418440	Poles	36	\$6,812
27418445	Poles	86	\$1,364
27418448	Poles	56	\$4,926
27418450	Poles	57	\$4,933
27418451	Poles	58	\$5,401
27418452	Poles	58	\$4,848
27418453	Poles	56	\$4,821
27418454	Poles	59	\$5,031
27418458	Poles	14	\$12,843
27418654	Poles	41	\$3,472
27418655	Poles	41	\$3,512
27418656	Poles	41	\$3,572
27418657	Poles	41	\$4,199
27418658	Poles	41	\$4,136
27418659	Poles	41	\$4,165
27418665	Poles	41	\$6,406
27418666	Poles	41	\$6,382

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
27418667	Poles	41	\$6,374
27419239	Poles	41	\$6,372
27419240	Poles	41	\$6,372
27419242	Poles	41	\$6,421
27419243	Poles	41	\$3,404
27419245	Poles	0	\$14,483
27419252	Poles	41	\$6,372
27419268	Poles	6	\$13,699
27419452	Poles	41	\$3,406
27419453	Poles	41	\$3,494
27420910	Poles	12	\$11,521
27420912	Poles	15	\$12,601
27420913	Poles	15	\$12,618
27422187	Poles	0	\$14,151
27422188	Poles	0	\$14,148
27422190	Poles	0	\$15,007
27422191	Poles	41	\$6,374
27422192	Poles	41	\$6,424
27422193	Poles	18	\$13,171
27422194	Poles	15	\$12,599
27422195	Poles	15	\$12,600
27422197	Poles	6	\$13,698
27422198	Poles	8	\$14,185
27422199	Poles	8	\$14,199
27422200	Poles	8	\$14,186
27422202	Poles	8	\$14,186
27422203	Poles	8	\$14,198

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of existing rear lot (NPV)
Total		\$7,951,686	
27422204	Poles	41	\$6,406
27422205	Poles	41	\$6,424
27422206	Poles	41	\$6,374
27422207	Poles	78	\$1,934
27422208	Poles	41	\$6,374
27422209	Poles	41	\$6,373
27422210	Poles	41	\$6,372
27422212	Poles	78	\$1,960
27422213	Poles	0	\$13,171
27422215	Poles	14	\$11,726
27422216	Poles	14	\$11,747
27423811	Poles	60	\$5,043
27423813	Poles	3	\$13,678
27423815	Poles	0	\$14,151
27423816	Poles	4	\$14,248
27424928	Poles	41	\$5,497
27425089	Poles	34	\$6,710
27425096	Poles	36	\$6,689
27425097	Poles	32	\$6,926
27425098	Poles	55	\$4,799
27425100	Poles	65	\$2,611
27425101	Poles	58	\$4,827
27425102	Poles	53	\$5,737
27425103	Poles	0	\$3,160
27427279	Poles	32	\$6,926
30399835	Poles	98	\$381

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

1 **Projected non-asset risk cost of new overhead rear lot (NPV)**

2 Event Cost Total = \$42,433,791.27

3 Duration Cost Total = \$ 60,047,470.34

4 NAR = \$ 102,481,261.61

5

6

7 **Maintenance**

8 Tree Trimming = \$39,551.97

9 Wood Pole Inspections = \$1,271.66

10 Discount Rate = 0.0606

11 Total = (\$39,551.97 + \$1,271.66) / 0.0606 = \$673,657.31

12

13

14 **Option 2: Like-for-Like Replacement of Existing O/H Rear Lot with New O/H Rear**

15 **Lot**

16 **Table 2:** Input data for Projected Risk Cost of New Overhead Rear Lot

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOS_10030	Overhead Switch	30	\$1,967
vOS_10031	Overhead Switch	20	\$3,375
vOS_10032	Overhead Switch	19	\$1,177
vOS_10033	Overhead Switch	8	\$3,402
vOS_10034	Overhead Switch	18	\$1,339
vOS_10035	Overhead Switch	12	\$31,384
vOS_10036	Overhead Switch	32	\$8,223

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOS_10037	Overhead Switch	35	\$1,543
vOS_10038	Overhead Switch	18	\$1,339
vOS_10039	Overhead Switch	29	\$9,438
vOS_10040	Overhead Switch	14	\$1,809
vOS_10041	Overhead Switch	12	\$31,384
vOS_10042	Overhead Switch	29	\$9,438
vOS_10043	Overhead Switch	8	\$3,402
vOS_10044	Overhead Switch	18	\$18,425
vOS_10045	Overhead Switch	20	\$1,138
vOS_10046	Overhead Switch	16	\$1,496
vOS_10047	Overhead Switch	20	\$1,099
vOS_10048	Overhead Switch	27	\$2,221
vOS_10049	Overhead Switch	18	\$19,035
vOS_10050	Overhead Switch	17	\$1,410
vOS_10051	Overhead Switch	18	\$18,606
vOS_10052	Overhead Switch	18	\$1,249
vOS_10053	Overhead Switch	19	\$16,971
vOS_10054	Overhead Switch	18	\$18,425
vOS_10055	Overhead Switch	19	\$16,975
vOS_10056	Overhead Switch	18	\$18,440
vOS_10057	Overhead Switch	18	\$18,425
vOS_10058	Overhead Switch	18	\$1,249
vOS_10059	Overhead Switch	19	\$1,194
vOS_10060	Overhead Switch	19	\$1,193
vOS_10061	Overhead Switch	23	\$2,765
vOS_10062	Overhead Switch	17	\$1,379

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOS_10063	Overhead Switch	19	\$16,991
vOS_10064	Overhead Switch	18	\$18,443
vOS_10065	Overhead Switch	17	\$1,349
vOS_10066	Overhead Switch	19	\$1,213
vOS_10067	Overhead Switch	24	\$2,716
vOS_10068	Overhead Switch	19	\$16,971
vOS_10069	Overhead Switch	19	\$1,177
vOS_10070	Overhead Switch	21	\$3,256
vOS_10071	Overhead Switch	19	\$3,583
vOS_10072	Overhead Switch	19	\$1,177
vOS_10073	Overhead Switch	19	\$16,680
vOS_10074	Overhead Switch	17	\$1,410
vOS_10075	Overhead Switch	29	\$9,617
vOS_10076	Overhead Switch	21	\$1,078
vOS_10077	Overhead Switch	14	\$5,175
vOS_10078	Overhead Switch	17	\$1,349
vOS_10079	Overhead Switch	14	\$5,175
vOS_10080	Overhead Switch	27	\$2,221
vOS_10081	Overhead Switch	18	\$1,249
vOS_10082	Overhead Switch	19	\$1,230
vOS_10083	Overhead Switch	20	\$1,099
vOS_10084	Overhead Switch	18	\$1,316
vOS_10085	Overhead Switch	18	\$1,281
vOS_10086	Overhead Switch	30	\$9,121
vOS_10087	Overhead Switch	17	\$1,362
vOS_10088	Overhead Switch	18	\$1,283

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOS_10089	Overhead Switch	20	\$1,099
vOS_10090	Overhead Switch	18	\$1,249
vOS_10091	Overhead Switch	16	\$4,334
vOS_10092	Overhead Switch	31	\$8,597
vOS_10093	Overhead Switch	31	\$8,597
vOS_10094	Overhead Switch	18	\$1,316
vOS_10095	Overhead Switch	20	\$1,137
vOS_10096	Overhead Switch	17	\$19,267
vOS_10097	Overhead Switch	20	\$1,138
vOS_10098	Overhead Switch	17	\$1,379
vOS_10099	Overhead Switch	20	\$1,099
vOS_10100	Overhead Switch	17	\$1,363
vOS_10101	Overhead Switch	20	\$1,099
vOS_10102	Overhead Switch	31	\$8,597
vOS_10103	Overhead Switch	31	\$1,820
vOS_10104	Overhead Switch	19	\$1,193
vOS_10105	Overhead Switch	18	\$1,316
vOS_10106	Overhead Switch	16	\$1,482
vOS_10107	Overhead Switch	20	\$1,138
vOS_10108	Overhead Switch	18	\$1,265
vOS_10109	Overhead Switch	26	\$11,169
vOS_10110	Overhead Switch	16	\$21,222
vOS_10111	Overhead Switch	26	\$2,340
vOS_10112	Overhead Switch	20	\$1,138
vOS_10113	Overhead Switch	20	\$1,138
vOS_10114	Overhead Switch	25	\$2,453

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOS_10115	Overhead Switch	18	\$1,316
vOS_10116	Overhead Switch	18	\$1,283
vOS_10117	Overhead Switch	20	\$1,138
vOS_10118	Overhead Switch	16	\$21,222
vOS_10119	Overhead Switch	20	\$1,099
vOS_10120	Overhead Switch	20	\$1,099
vOS_10121	Overhead Switch	20	\$1,099
vOS_10122	Overhead Switch	37	\$6,569
vOS_10123	Overhead Switch	26	\$2,422
vOS_10124	Overhead Switch	18	\$1,283
vOS_10125	Overhead Switch	20	\$1,157
vOS_10126	Overhead Switch	27	\$2,310
vOS_10127	Overhead Switch	14	\$5,175
vOS_10128	Overhead Switch	20	\$1,099
vOS_10129	Overhead Switch	20	\$1,099
vOS_10130	Overhead Switch	14	\$5,175
vOS_10131	Overhead Switch	17	\$1,410
vOS_10132	Overhead Switch	22	\$1,015
vOS_10133	Overhead Switch	13	\$1,921
vOS_10134	Overhead Switch	13	\$1,921
vOS_10135	Overhead Switch	17	\$19,289
vOS_10136	Overhead Switch	18	\$1,283
vOS_10137	Overhead Switch	18	\$1,316
vOS_10138	Overhead Switch	20	\$1,157
vOS_10139	Overhead Switch	13	\$1,921
vOS_10140	Overhead Switch	25	\$2,507

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOS_10141	Overhead Switch	17	\$1,440
vOS_10142	Overhead Switch	17	\$19,291
vOS_10143	Overhead Switch	29	\$9,663
vOS_10144	Overhead Switch	22	\$2,952
vOS_10145	Overhead Switch	19	\$1,177
vOS_10146	Overhead Switch	20	\$1,157
vOS_10147	Overhead Switch	17	\$4,029
vOS_10148	Overhead Switch	28	\$2,189
vOS_10149	Overhead Switch	20	\$1,138
vOT_15578	Overhead Transformer	28	\$5,010
vOT_15579	Overhead Transformer	27	\$7,016
vOT_15580	Overhead Transformer	32	\$3,256
vOT_15581	Overhead Transformer	28	\$5,010
vOT_15582	Overhead Transformer	28	\$5,010
vOT_15583	Overhead Transformer	28	\$5,010
vOT_15584	Overhead Transformer	27	\$7,025
vOT_15585	Overhead Transformer	30	\$3,538
vOT_15586	Overhead Transformer	28	\$5,010
vOT_15587	Overhead Transformer	28	\$5,010
vOT_15588	Overhead Transformer	26	\$7,406
vOT_15589	Overhead Transformer	34	\$2,950
vOT_15590	Overhead Transformer	30	\$3,538
vOT_15591	Overhead Transformer	28	\$5,010
vOT_15592	Overhead Transformer	28	\$5,010
vOT_15593	Overhead Transformer	28	\$5,010
vOT_15594	Overhead Transformer	15	\$40,417

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOT_15595	Overhead Transformer	28	\$5,010
vOT_15596	Overhead Transformer	35	\$2,819
vOT_15597	Overhead Transformer	28	\$5,010
vOT_15598	Overhead Transformer	28	\$5,010
vOT_15599	Overhead Transformer	27	\$7,016
vOT_15600	Overhead Transformer	28	\$5,010
vOT_15601	Overhead Transformer	28	\$5,010
vOT_15602	Overhead Transformer	27	\$6,847
vOT_15603	Overhead Transformer	28	\$5,010
vOT_15604	Overhead Transformer	28	\$5,010
vOT_15605	Overhead Transformer	30	\$3,538
vOT_15606	Overhead Transformer	26	\$7,406
vOT_15607	Overhead Transformer	28	\$6,548
vOT_15608	Overhead Transformer	28	\$5,010
vOT_15609	Overhead Transformer	30	\$3,538
vOT_15610	Overhead Transformer	15	\$40,417
vOT_15611	Overhead Transformer	30	\$4,483
vOT_15612	Overhead Transformer	30	\$4,483
vOT_15613	Overhead Transformer	32	\$3,244
vOT_15614	Overhead Transformer	30	\$3,538
vOT_15615	Overhead Transformer	30	\$3,538
vOT_15616	Overhead Transformer	30	\$3,538
vOT_15617	Overhead Transformer	34	\$2,950
vOT_15618	Overhead Transformer	30	\$4,483
vOT_15619	Overhead Transformer	30	\$3,538
vOT_15620	Overhead Transformer	30	\$3,538

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOT_15621	Overhead Transformer	30	\$4,483
vOT_15622	Overhead Transformer	28	\$5,010
vOT_15623	Overhead Transformer	30	\$4,483
vOT_15624	Overhead Transformer	30	\$3,538
vOT_15625	Overhead Transformer	30	\$4,483
vOT_15626	Overhead Transformer	30	\$4,483
vOT_15627	Overhead Transformer	30	\$4,483
vOT_15628	Overhead Transformer	30	\$4,483
vOT_15629	Overhead Transformer	30	\$3,538
vOT_15630	Overhead Transformer	34	\$2,950
vOT_15631	Overhead Transformer	28	\$5,010
vOT_15632	Overhead Transformer	30	\$3,538
vOT_15633	Overhead Transformer	32	\$3,244
vOT_15634	Overhead Transformer	30	\$4,483
vOT_15635	Overhead Transformer	30	\$4,483
vOT_15636	Overhead Transformer	30	\$4,483
vOT_15637	Overhead Transformer	30	\$3,538
vOT_15638	Overhead Transformer	26	\$7,406
vOT_15639	Overhead Transformer	32	\$3,244
vOT_15640	Overhead Transformer	32	\$3,244
vOT_15641	Overhead Transformer	30	\$3,538
vOT_15642	Overhead Transformer	30	\$3,538
vOT_15643	Overhead Transformer	30	\$4,483
vOT_15644	Overhead Transformer	28	\$5,010
vOT_15645	Overhead Transformer	30	\$4,483
vOT_15646	Overhead Transformer	30	\$3,538

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOT_15647	Overhead Transformer	28	\$5,010
vOT_15648	Overhead Transformer	30	\$3,538
vOT_15649	Overhead Transformer	32	\$3,244
vOT_15650	Overhead Transformer	30	\$4,483
vOT_15651	Overhead Transformer	30	\$3,538
vOT_15652	Overhead Transformer	30	\$3,538
vOT_15653	Overhead Transformer	28	\$5,010
vOT_15654	Overhead Transformer	30	\$3,538
vOT_15655	Overhead Transformer	30	\$3,538
vOT_15656	Overhead Transformer	34	\$2,950
vOT_15657	Overhead Transformer	30	\$4,483
vOT_15658	Overhead Transformer	30	\$3,538
vOT_15659	Overhead Transformer	30	\$4,483
vOT_15660	Overhead Transformer	30	\$3,538
vOT_15661	Overhead Transformer	28	\$5,010
vOT_15662	Overhead Transformer	28	\$5,010
vOT_15663	Overhead Transformer	30	\$3,538
vOT_15664	Overhead Transformer	30	\$3,538
vOT_15665	Overhead Transformer	30	\$4,483
vOT_15666	Overhead Transformer	30	\$3,538
vOT_15667	Overhead Transformer	30	\$3,538
vOT_15668	Overhead Transformer	28	\$5,010
vOT_15669	Overhead Transformer	32	\$3,244
vOT_15670	Overhead Transformer	30	\$4,483
vOT_15671	Overhead Transformer	30	\$4,483
vOT_15672	Overhead Transformer	28	\$5,010

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOT_15673	Overhead Transformer	30	\$4,483
vOT_15674	Overhead Transformer	30	\$3,538
vOT_15675	Overhead Transformer	30	\$3,538
vOT_15676	Overhead Transformer	32	\$3,244
vOT_15677	Overhead Transformer	30	\$3,538
vOT_15678	Overhead Transformer	30	\$3,538
vOT_15679	Overhead Transformer	32	\$3,244
vOT_15680	Overhead Transformer	28	\$5,010
vOT_15681	Overhead Transformer	32	\$3,244
vOT_15682	Overhead Transformer	28	\$5,010
vOT_15683	Overhead Transformer	30	\$3,538
vOT_15684	Overhead Transformer	28	\$5,010
vOT_15685	Overhead Transformer	28	\$5,010
vOT_15686	Overhead Transformer	32	\$3,244
vOT_15687	Overhead Transformer	30	\$4,483
vOT_15688	Overhead Transformer	28	\$5,010
vOT_15689	Overhead Transformer	28	\$5,010
vOT_15690	Overhead Transformer	30	\$3,538
vOT_15691	Overhead Transformer	32	\$3,244
vOT_15692	Overhead Transformer	30	\$3,538
vOT_15693	Overhead Transformer	30	\$3,538
vOT_15694	Overhead Transformer	34	\$2,950
vOT_15695	Overhead Transformer	32	\$3,244
vOT_15696	Overhead Transformer	28	\$5,010
vOT_15697	Overhead Transformer	32	\$3,244
vOT_15698	Overhead Transformer	25	\$15,005

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOT_15699	Overhead Transformer	30	\$3,538
vOT_15700	Overhead Transformer	28	\$5,010
vOT_15701	Overhead Transformer	30	\$3,538
vOT_15702	Overhead Transformer	32	\$3,244
vOT_15703	Overhead Transformer	34	\$2,950
vOT_15704	Overhead Transformer	30	\$3,538
vOT_15705	Overhead Transformer	28	\$5,010
vOT_15706	Overhead Transformer	30	\$3,538
vOT_15707	Overhead Transformer	30	\$4,483
vOT_15708	Overhead Transformer	28	\$5,010
vOT_15709	Overhead Transformer	32	\$3,244
vOT_15710	Overhead Transformer	30	\$3,538
vOT_15711	Overhead Transformer	30	\$4,483
vOT_15712	Overhead Transformer	28	\$5,010
vOT_15713	Overhead Transformer	34	\$2,950
vOT_15714	Overhead Transformer	30	\$3,538
vOT_15715	Overhead Transformer	32	\$3,244
vOT_15716	Overhead Transformer	34	\$2,950
vOT_15717	Overhead Transformer	32	\$3,244
vOT_15718	Overhead Transformer	28	\$5,010
vOT_15719	Overhead Transformer	28	\$5,010
vOT_15720	Overhead Transformer	32	\$3,244
vOT_15721	Overhead Transformer	30	\$3,538
vOT_15722	Overhead Transformer	28	\$5,010
vOT_15723	Overhead Transformer	30	\$3,538
vOT_15724	Overhead Transformer	32	\$3,244

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOT_15725	Overhead Transformer	34	\$2,950
vOT_15726	Overhead Transformer	34	\$2,950
vOT_15727	Overhead Transformer	30	\$4,483
vOT_15728	Overhead Transformer	30	\$4,483
vOT_15729	Overhead Transformer	30	\$4,483
vOT_15730	Overhead Transformer	32	\$3,244
vOT_15731	Overhead Transformer	30	\$4,483
vOT_15732	Overhead Transformer	30	\$4,483
vOT_15733	Overhead Transformer	30	\$4,483
vOT_15734	Overhead Transformer	30	\$3,538
vOT_15735	Overhead Transformer	30	\$4,483
vOT_15736	Overhead Transformer	30	\$3,538
vOT_15737	Overhead Transformer	30	\$4,483
vOT_15738	Overhead Transformer	32	\$3,244
vOT_15739	Overhead Transformer	28	\$5,010
vOT_15740	Overhead Transformer	32	\$3,244
vOT_15741	Overhead Transformer	30	\$3,538
vOT_15742	Overhead Transformer	32	\$3,244
vOT_15743	Overhead Transformer	30	\$4,483
vOT_15744	Overhead Transformer	32	\$3,244
vOT_15745	Overhead Transformer	30	\$4,483
vOT_15746	Overhead Transformer	30	\$3,538
vOT_15747	Overhead Transformer	30	\$3,538
vOT_15748	Overhead Transformer	30	\$3,538
vOT_15749	Overhead Transformer	30	\$3,538
vOT_15750	Overhead Transformer	32	\$3,244

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOT_15751	Overhead Transformer	30	\$3,538
vOT_15752	Overhead Transformer	30	\$3,538
vOT_15753	Overhead Transformer	32	\$3,244
vOT_15754	Overhead Transformer	30	\$4,483
vOT_15755	Overhead Transformer	30	\$3,538
vOT_15756	Overhead Transformer	30	\$3,538
vOT_15757	Overhead Transformer	30	\$3,538
vOT_15758	Overhead Transformer	30	\$3,538
vOT_15759	Overhead Transformer	30	\$3,538
vOT_15760	Overhead Transformer	28	\$5,010
vOT_15761	Overhead Transformer	28	\$5,010
vOT_15762	Overhead Transformer	30	\$4,483
vOT_15763	Overhead Transformer	28	\$5,010
vOT_15764	Overhead Transformer	28	\$5,010
vOT_15765	Overhead Transformer	30	\$4,483
vOT_15766	Overhead Transformer	28	\$5,010
vOT_15767	Overhead Transformer	28	\$5,010
vOT_15768	Overhead Transformer	28	\$5,010
vOT_15769	Overhead Transformer	28	\$5,010
vOT_15770	Overhead Transformer	32	\$3,244
vOT_15771	Overhead Transformer	30	\$3,538
vOT_15772	Overhead Transformer	28	\$5,010
vOT_15773	Overhead Transformer	28	\$5,010
vOT_15774	Overhead Transformer	30	\$3,538
vOT_15775	Overhead Transformer	30	\$3,538
vOT_15776	Overhead Transformer	30	\$4,483

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vOT_15777	Overhead Transformer	28	\$5,010
vOT_15778	Overhead Transformer	30	\$3,538
vOT_15779	Overhead Transformer	30	\$4,483
vOT_15780	Overhead Transformer	28	\$5,010
vOT_15781	Overhead Transformer	28	\$5,010
vOT_15782	Overhead Transformer	30	\$4,483
vOT_15783	Overhead Transformer	30	\$4,483
vOT_15784	Overhead Transformer	28	\$5,010
vOT_15785	Overhead Transformer	28	\$5,010
vOT_15786	Overhead Transformer	28	\$5,010
vOT_15787	Overhead Transformer	30	\$4,483
vOT_15788	Overhead Transformer	30	\$3,538
vOT_15789	Overhead Transformer	30	\$3,538
vOT_15790	Overhead Transformer	28	\$5,010
vOT_15791	Overhead Transformer	32	\$3,244
vOT_15792	Overhead Transformer	32	\$3,244
vOT_15793	Overhead Transformer	30	\$4,483
vOT_15794	Overhead Transformer	30	\$3,538
vPO_37552	Poles	51	\$2,438
vPO_37553	Poles	82	\$1,350
vPO_37554	Poles	67	\$1,723
vPO_37555	Poles	65	\$1,708
vPO_37556	Poles	65	\$1,708
vPO_37557	Poles	51	\$2,435
vPO_37558	Poles	67	\$1,624
vPO_37559	Poles	76	\$1,694

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37560	Poles	76	\$1,190
vPO_37561	Poles	99	\$605
vPO_37562	Poles	77	\$1,270
vPO_37563	Poles	67	\$1,720
vPO_37564	Poles	51	\$2,435
vPO_37565	Poles	71	\$1,648
vPO_37566	Poles	99	\$487
vPO_37567	Poles	99	\$606
vPO_37568	Poles	74	\$1,620
vPO_37569	Poles	67	\$1,720
vPO_37570	Poles	76	\$1,191
vPO_37571	Poles	99	\$275
vPO_37572	Poles	99	\$275
vPO_37573	Poles	75	\$1,862
vPO_37574	Poles	51	\$2,435
vPO_37575	Poles	99	\$280
vPO_37576	Poles	99	\$483
vPO_37577	Poles	80	\$1,295
vPO_37578	Poles	99	\$349
vPO_37579	Poles	99	\$609
vPO_37580	Poles	99	\$605
vPO_37581	Poles	99	\$276
vPO_37582	Poles	54	\$2,503
vPO_37583	Poles	67	\$1,719
vPO_37584	Poles	99	\$240
vPO_37585	Poles	99	\$609

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37586	Poles	78	\$1,267
vPO_37587	Poles	63	\$1,692
vPO_37588	Poles	63	\$1,688
vPO_37589	Poles	50	\$2,398
vPO_37590	Poles	99	\$605
vPO_37591	Poles	78	\$1,267
vPO_37592	Poles	99	\$605
vPO_37593	Poles	78	\$1,267
vPO_37594	Poles	99	\$605
vPO_37595	Poles	99	\$605
vPO_37596	Poles	67	\$1,726
vPO_37597	Poles	51	\$2,435
vPO_37598	Poles	78	\$1,267
vPO_37599	Poles	99	\$280
vPO_37600	Poles	99	\$189
vPO_37601	Poles	67	\$1,720
vPO_37602	Poles	67	\$1,719
vPO_37603	Poles	65	\$1,705
vPO_37604	Poles	53	\$2,470
vPO_37605	Poles	53	\$2,474
vPO_37606	Poles	52	\$2,452
vPO_37607	Poles	76	\$1,311
vPO_37608	Poles	99	\$280
vPO_37609	Poles	99	\$609
vPO_37610	Poles	99	\$352
vPO_37611	Poles	73	\$1,661

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37612	Poles	99	\$353
vPO_37613	Poles	65	\$1,705
vPO_37614	Poles	80	\$1,273
vPO_37615	Poles	99	\$606
vPO_37616	Poles	75	\$1,186
vPO_37617	Poles	51	\$2,438
vPO_37618	Poles	73	\$1,664
vPO_37619	Poles	76	\$1,194
vPO_37620	Poles	75	\$1,190
vPO_37621	Poles	67	\$1,719
vPO_37622	Poles	76	\$1,191
vPO_37623	Poles	99	\$605
vPO_37624	Poles	99	\$605
vPO_37625	Poles	65	\$1,704
vPO_37626	Poles	54	\$2,505
vPO_37627	Poles	54	\$2,505
vPO_37628	Poles	74	\$1,620
vPO_37629	Poles	79	\$1,197
vPO_37630	Poles	75	\$1,186
vPO_37631	Poles	99	\$606
vPO_37632	Poles	72	\$1,612
vPO_37633	Poles	99	\$609
vPO_37634	Poles	99	\$606
vPO_37635	Poles	99	\$605
vPO_37636	Poles	67	\$1,723
vPO_37637	Poles	53	\$2,474

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37638	Poles	99	\$606
vPO_37639	Poles	99	\$609
vPO_37640	Poles	63	\$2,414
vPO_37641	Poles	99	\$307
vPO_37642	Poles	99	\$247
vPO_37643	Poles	55	\$3,155
vPO_37644	Poles	99	\$229
vPO_37645	Poles	62	\$2,338
vPO_37646	Poles	99	\$299
vPO_37647	Poles	57	\$2,690
vPO_37648	Poles	99	\$299
vPO_37649	Poles	99	\$211
vPO_37650	Poles	99	\$189
vPO_37651	Poles	99	\$207
vPO_37652	Poles	99	\$284
vPO_37653	Poles	99	\$373
vPO_37654	Poles	99	\$376
vPO_37655	Poles	58	\$3,023
vPO_37656	Poles	99	\$207
vPO_37657	Poles	58	\$2,699
vPO_37658	Poles	57	\$2,690
vPO_37659	Poles	60	\$3,395
vPO_37660	Poles	94	\$879
vPO_37661	Poles	99	\$284
vPO_37662	Poles	99	\$201
vPO_37663	Poles	99	\$307

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37664	Poles	59	\$2,840
vPO_37665	Poles	99	\$299
vPO_37666	Poles	57	\$2,690
vPO_37667	Poles	63	\$2,419
vPO_37668	Poles	94	\$886
vPO_37669	Poles	99	\$373
vPO_37670	Poles	57	\$2,690
vPO_37671	Poles	99	\$197
vPO_37672	Poles	99	\$193
vPO_37673	Poles	99	\$201
vPO_37674	Poles	99	\$197
vPO_37675	Poles	57	\$2,695
vPO_37676	Poles	99	\$303
vPO_37677	Poles	99	\$229
vPO_37678	Poles	46	\$5,284
vPO_37679	Poles	70	\$1,831
vPO_37680	Poles	62	\$2,367
vPO_37681	Poles	99	\$303
vPO_37682	Poles	60	\$2,824
vPO_37683	Poles	56	\$2,974
vPO_37684	Poles	84	\$1,051
vPO_37685	Poles	99	\$197
vPO_37686	Poles	99	\$197
vPO_37687	Poles	99	\$376
vPO_37688	Poles	99	\$225
vPO_37689	Poles	99	\$197

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37690	Poles	99	\$201
vPO_37691	Poles	57	\$2,690
vPO_37692	Poles	59	\$2,943
vPO_37693	Poles	99	\$198
vPO_37694	Poles	99	\$208
vPO_37695	Poles	70	\$1,833
vPO_37696	Poles	57	\$2,690
vPO_37697	Poles	62	\$2,489
vPO_37698	Poles	99	\$197
vPO_37699	Poles	99	\$189
vPO_37700	Poles	99	\$207
vPO_37701	Poles	57	\$2,690
vPO_37702	Poles	99	\$193
vPO_37703	Poles	58	\$2,699
vPO_37704	Poles	57	\$2,695
vPO_37705	Poles	99	\$189
vPO_37706	Poles	59	\$2,746
vPO_37707	Poles	99	\$303
vPO_37708	Poles	99	\$198
vPO_37709	Poles	99	\$211
vPO_37710	Poles	99	\$339
vPO_37711	Poles	99	\$197
vPO_37712	Poles	96	\$862
vPO_37713	Poles	99	\$208
vPO_37714	Poles	99	\$280
vPO_37715	Poles	99	\$189

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37716	Poles	63	\$2,554
vPO_37717	Poles	99	\$303
vPO_37718	Poles	99	\$202
vPO_37719	Poles	57	\$2,690
vPO_37720	Poles	99	\$303
vPO_37721	Poles	99	\$225
vPO_37722	Poles	99	\$358
vPO_37723	Poles	99	\$299
vPO_37724	Poles	57	\$2,838
vPO_37725	Poles	99	\$303
vPO_37726	Poles	57	\$2,695
vPO_37727	Poles	99	\$413
vPO_37728	Poles	99	\$189
vPO_37729	Poles	61	\$3,115
vPO_37730	Poles	99	\$189
vPO_37731	Poles	99	\$299
vPO_37732	Poles	63	\$2,506
vPO_37733	Poles	99	\$303
vPO_37734	Poles	99	\$299
vPO_37735	Poles	99	\$208
vPO_37736	Poles	67	\$1,720
vPO_37737	Poles	99	\$281
vPO_37738	Poles	30	\$6,623
vPO_37739	Poles	30	\$6,624
vPO_37740	Poles	30	\$7,609
vPO_37741	Poles	29	\$7,348

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37742	Poles	30	\$6,623
vPO_37743	Poles	99	\$284
vPO_37744	Poles	30	\$6,623
vPO_37745	Poles	30	\$6,623
vPO_37746	Poles	30	\$6,623
vPO_37747	Poles	30	\$6,658
vPO_37748	Poles	30	\$6,658
vPO_37749	Poles	21	\$13,726
vPO_37750	Poles	31	\$7,120
vPO_37751	Poles	29	\$7,385
vPO_37752	Poles	30	\$7,586
vPO_37753	Poles	29	\$7,387
vPO_37754	Poles	31	\$6,879
vPO_37755	Poles	31	\$7,094
vPO_37756	Poles	31	\$6,879
vPO_37757	Poles	31	\$6,873
vPO_37758	Poles	28	\$7,111
vPO_37759	Poles	30	\$6,623
vPO_37760	Poles	29	\$7,386
vPO_37761	Poles	30	\$6,623
vPO_37762	Poles	30	\$6,814
vPO_37763	Poles	30	\$6,623
vPO_37764	Poles	99	\$288
vPO_37765	Poles	99	\$289
vPO_37766	Poles	99	\$299
vPO_37767	Poles	99	\$421

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37768	Poles	99	\$197
vPO_37769	Poles	99	\$244
vPO_37770	Poles	99	\$417
vPO_37771	Poles	27	\$8,162
vPO_37772	Poles	99	\$299
vPO_37773	Poles	99	\$243
vPO_37774	Poles	99	\$289
vPO_37775	Poles	99	\$262
vPO_37776	Poles	99	\$262
vPO_37777	Poles	99	\$174
vPO_37778	Poles	99	\$197
vPO_37779	Poles	27	\$7,863
vPO_37780	Poles	99	\$197
vPO_37781	Poles	28	\$8,991
vPO_37782	Poles	90	\$872
vPO_37783	Poles	99	\$170
vPO_37784	Poles	27	\$8,163
vPO_37785	Poles	99	\$367
vPO_37786	Poles	99	\$197
vPO_37787	Poles	99	\$417
vPO_37788	Poles	99	\$288
vPO_37789	Poles	99	\$262
vPO_37790	Poles	99	\$293
vPO_37791	Poles	99	\$363
vPO_37792	Poles	99	\$363
vPO_37793	Poles	99	\$293

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37794	Poles	99	\$243
vPO_37795	Poles	99	\$170
vPO_37796	Poles	99	\$170
vPO_37797	Poles	28	\$8,454
vPO_37798	Poles	27	\$8,162
vPO_37799	Poles	99	\$303
vPO_37800	Poles	28	\$8,373
vPO_37801	Poles	99	\$243
vPO_37802	Poles	99	\$174
vPO_37803	Poles	99	\$262
vPO_37804	Poles	99	\$299
vPO_37805	Poles	27	\$8,163
vPO_37806	Poles	99	\$197
vPO_37807	Poles	99	\$197
vPO_37808	Poles	99	\$290
vPO_37809	Poles	99	\$243
vPO_37810	Poles	27	\$8,173
vPO_37811	Poles	99	\$289
vPO_37812	Poles	99	\$170
vPO_37813	Poles	28	\$8,366
vPO_37814	Poles	99	\$225
vPO_37815	Poles	99	\$262
vPO_37816	Poles	99	\$266
vPO_37817	Poles	99	\$243
vPO_37818	Poles	99	\$417
vPO_37819	Poles	99	\$262

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37820	Poles	99	\$152
vPO_37821	Poles	99	\$170
vPO_37822	Poles	99	\$247
vPO_37823	Poles	99	\$170
vPO_37824	Poles	99	\$299
vPO_37825	Poles	75	\$1,211
vPO_37826	Poles	99	\$299
vPO_37827	Poles	93	\$924
vPO_37828	Poles	99	\$362
vPO_37829	Poles	75	\$1,211
vPO_37830	Poles	27	\$8,162
vPO_37831	Poles	99	\$156
vPO_37832	Poles	99	\$197
vPO_37833	Poles	83	\$1,160
vPO_37834	Poles	99	\$262
vPO_37835	Poles	99	\$299
vPO_37836	Poles	99	\$201
vPO_37837	Poles	99	\$197
vPO_37838	Poles	99	\$367
vPO_37839	Poles	99	\$243
vPO_37840	Poles	99	\$362
vPO_37841	Poles	99	\$421
vPO_37842	Poles	27	\$7,863
vPO_37843	Poles	78	\$1,218
vPO_37844	Poles	27	\$8,162
vPO_37845	Poles	99	\$299

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37846	Poles	99	\$298
vPO_37847	Poles	99	\$247
vPO_37848	Poles	99	\$247
vPO_37849	Poles	75	\$1,211
vPO_37850	Poles	27	\$7,863
vPO_37851	Poles	99	\$197
vPO_37852	Poles	99	\$299
vPO_37853	Poles	99	\$289
vPO_37854	Poles	99	\$262
vPO_37855	Poles	99	\$262
vPO_37856	Poles	99	\$201
vPO_37857	Poles	99	\$243
vPO_37858	Poles	27	\$8,162
vPO_37859	Poles	99	\$299
vPO_37860	Poles	27	\$8,162
vPO_37861	Poles	99	\$189
vPO_37862	Poles	78	\$1,218
vPO_37863	Poles	99	\$266
vPO_37864	Poles	27	\$8,163
vPO_37865	Poles	99	\$289
vPO_37866	Poles	99	\$197
vPO_37867	Poles	99	\$152
vPO_37868	Poles	99	\$262
vPO_37869	Poles	99	\$262
vPO_37870	Poles	99	\$266
vPO_37871	Poles	99	\$264

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37872	Poles	99	\$303
vPO_37873	Poles	28	\$8,390
vPO_37874	Poles	99	\$289
vPO_37875	Poles	99	\$290
vPO_37876	Poles	28	\$8,441
vPO_37877	Poles	99	\$299
vPO_37878	Poles	99	\$243
vPO_37879	Poles	99	\$243
vPO_37880	Poles	99	\$303
vPO_37881	Poles	99	\$417
vPO_37882	Poles	99	\$293
vPO_37883	Poles	99	\$289
vPO_37884	Poles	99	\$362
vPO_37885	Poles	28	\$8,326
vPO_37886	Poles	75	\$1,211
vPO_37887	Poles	27	\$8,162
vPO_37888	Poles	99	\$266
vPO_37889	Poles	99	\$418
vPO_37890	Poles	99	\$299
vPO_37891	Poles	99	\$262
vPO_37892	Poles	28	\$8,712
vPO_37893	Poles	88	\$1,083
vPO_37894	Poles	66	\$2,179
vPO_37895	Poles	89	\$1,075
vPO_37896	Poles	88	\$1,083
vPO_37897	Poles	88	\$1,083

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37898	Poles	89	\$1,075
vPO_37899	Poles	91	\$1,096
vPO_37900	Poles	88	\$1,083
vPO_37901	Poles	72	\$2,003
vPO_37902	Poles	88	\$1,083
vPO_37903	Poles	69	\$1,932
vPO_37904	Poles	89	\$1,075
vPO_37905	Poles	28	\$9,132
vPO_37906	Poles	99	\$220
vPO_37907	Poles	99	\$347
vPO_37908	Poles	99	\$220
vPO_37909	Poles	99	\$344
vPO_37910	Poles	99	\$220
vPO_37911	Poles	99	\$216
vPO_37912	Poles	99	\$217
vPO_37913	Poles	99	\$344
vPO_37914	Poles	99	\$344
vPO_37915	Poles	99	\$216
vPO_37916	Poles	99	\$248
vPO_37917	Poles	99	\$217
vPO_37918	Poles	99	\$344
vPO_37919	Poles	63	\$1,990
vPO_37920	Poles	99	\$347
vPO_37921	Poles	99	\$344
vPO_37922	Poles	99	\$347
vPO_37923	Poles	99	\$245

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37924	Poles	99	\$344
vPO_37925	Poles	99	\$344
vPO_37926	Poles	99	\$344
vPO_37927	Poles	99	\$245
vPO_37928	Poles	99	\$344
vPO_37929	Poles	68	\$1,939
vPO_37930	Poles	99	\$347
vPO_37931	Poles	99	\$344
vPO_37932	Poles	99	\$216
vPO_37933	Poles	99	\$344
vPO_37934	Poles	99	\$248
vPO_37935	Poles	99	\$344
vPO_37936	Poles	99	\$344
vPO_37937	Poles	64	\$1,884
vPO_37938	Poles	99	\$344
vPO_37939	Poles	99	\$347
vPO_37940	Poles	99	\$244
vPO_37941	Poles	99	\$344
vPO_37942	Poles	99	\$344
vPO_37943	Poles	99	\$344
vPO_37944	Poles	93	\$817
vPO_37945	Poles	90	\$930
vPO_37946	Poles	31	\$6,231
vPO_37947	Poles	99	\$307
vPO_37948	Poles	31	\$6,198
vPO_37949	Poles	31	\$6,198

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37950	Poles	31	\$6,280
vPO_37951	Poles	92	\$917
vPO_37952	Poles	87	\$1,138
vPO_37953	Poles	99	\$271
vPO_37954	Poles	92	\$917
vPO_37955	Poles	91	\$936
vPO_37956	Poles	99	\$271
vPO_37957	Poles	84	\$1,167
vPO_37958	Poles	91	\$936
vPO_37959	Poles	91	\$1,009
vPO_37960	Poles	90	\$939
vPO_37961	Poles	92	\$918
vPO_37962	Poles	91	\$936
vPO_37963	Poles	91	\$936
vPO_37964	Poles	96	\$986
vPO_37965	Poles	74	\$1,647
vPO_37966	Poles	90	\$935
vPO_37967	Poles	92	\$917
vPO_37968	Poles	91	\$1,009
vPO_37969	Poles	92	\$1,067
vPO_37970	Poles	91	\$1,010
vPO_37971	Poles	99	\$225
vPO_37972	Poles	79	\$1,574
vPO_37973	Poles	85	\$1,132
vPO_37974	Poles	91	\$1,014
vPO_37975	Poles	99	\$703

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of new overhead rear lot (NPV)
Total		\$2,372,329	
vPO_37976	Poles	99	\$225
vPO_37977	Poles	74	\$1,660
vPO_37978	Poles	26	\$11,726
vPO_37979	Poles	99	\$271
vPO_37980	Poles	27	\$12,586
vPO_37981	Poles	86	\$1,053

1 **Projected non-asset risk cost of overhead front lot (NPV)**

2 Event Cost Total = \$42,433,791.27

3 Duration Cost Total = \$ 60,047,470.34

4 NAR = \$ 102,481,261.61

5

6

7 **Maintenance**

8 Tree Trimming = \$39,551.97

9 Wood Pole Inspections = \$1,271.66

10 Discount Rate = 0.0606

11 Total = (\$39,551.97 + \$1,271.66) / 0.0606 = \$673,657.31

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

1 **Option 3: Replacement of Existing O/H Rear Lot with New O/H Front Lot**

2 **Table 3:** Input data for Projected Risk Cost of Overhead Front Lot

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOS_10000	Overhead Switch	21	\$283
vOS_10001	Overhead Switch	21	\$283
vOS_10002	Overhead Switch	43	\$283
vOS_10003	Overhead Switch	27	\$283
vOS_10004	Overhead Switch	19	\$283
vOS_10005	Overhead Switch	20	\$283
vOS_10006	Overhead Switch	42	\$283
vOS_10007	Overhead Switch	15	\$284
vOS_10008	Overhead Switch	21	\$283
vOS_10009	Overhead Switch	34	\$283
vOS_10010	Overhead Switch	21	\$283
vOS_10011	Overhead Switch	17	\$283
vOS_10012	Overhead Switch	22	\$283
vOS_10013	Overhead Switch	14	\$283
vOS_10014	Overhead Switch	14	\$283
vOS_10015	Overhead Switch	27	\$285
vOS_10016	Overhead Switch	19	\$283
vOS_10017	Overhead Switch	18	\$283
vOS_10018	Overhead Switch	20	\$283
vOS_10019	Overhead Switch	14	\$283
vOS_10020	Overhead Switch	39	\$283
vOS_10021	Overhead Switch	17	\$283
vOS_10022	Overhead Switch	17	\$289

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOS_10023	Overhead Switch	46	\$283
vOS_10024	Overhead Switch	34	\$283
vOS_10025	Overhead Switch	20	\$283
vOS_10026	Overhead Switch	20	\$283
vOS_10027	Overhead Switch	26	\$283
vOS_10028	Overhead Switch	29	\$283
vOS_10029	Overhead Switch	32	\$283
vOS_9910	Overhead Switch	30	\$283
vOS_9911	Overhead Switch	30	\$283
vOS_9912	Overhead Switch	20	\$283
vOS_9913	Overhead Switch	8	\$285
vOS_9914	Overhead Switch	18	\$283
vOS_9915	Overhead Switch	14	\$292
vOS_9916	Overhead Switch	38	\$283
vOS_9917	Overhead Switch	35	\$283
vOS_9918	Overhead Switch	18	\$283
vOS_9919	Overhead Switch	35	\$284
vOS_9920	Overhead Switch	20	\$283
vOS_9921	Overhead Switch	23	\$285
vOS_9922	Overhead Switch	60	\$283
vOS_9923	Overhead Switch	8	\$285
vOS_9924	Overhead Switch	28	\$284
vOS_9925	Overhead Switch	32	\$283
vOS_9926	Overhead Switch	17	\$283
vOS_9927	Overhead Switch	21	\$283
vOS_9928	Overhead Switch	43	\$283

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOS_9929	Overhead Switch	27	\$285
vOS_9930	Overhead Switch	17	\$283
vOS_9931	Overhead Switch	28	\$284
vOS_9932	Overhead Switch	29	\$283
vOS_9933	Overhead Switch	30	\$284
vOS_9934	Overhead Switch	28	\$284
vOS_9935	Overhead Switch	18	\$288
vOS_9936	Overhead Switch	28	\$284
vOS_9937	Overhead Switch	28	\$284
vOS_9938	Overhead Switch	29	\$283
vOS_9939	Overhead Switch	20	\$283
vOS_9940	Overhead Switch	20	\$283
vOS_9941	Overhead Switch	25	\$283
vOS_9942	Overhead Switch	18	\$283
vOS_9943	Overhead Switch	30	\$284
vOS_9944	Overhead Switch	28	\$284
vOS_9945	Overhead Switch	18	\$283
vOS_9946	Overhead Switch	19	\$283
vOS_9947	Overhead Switch	36	\$283
vOS_9948	Overhead Switch	30	\$284
vOS_9949	Overhead Switch	20	\$283
vOS_9950	Overhead Switch	31	\$283
vOS_9951	Overhead Switch	20	\$283
vOS_9952	Overhead Switch	20	\$283
vOS_9953	Overhead Switch	24	\$285
vOS_9954	Overhead Switch	17	\$283

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOS_9955	Overhead Switch	35	\$284
vOS_9956	Overhead Switch	21	\$283
vOS_9957	Overhead Switch	15	\$284
vOS_9958	Overhead Switch	18	\$283
vOS_9959	Overhead Switch	15	\$284
vOS_9960	Overhead Switch	28	\$283
vOS_9961	Overhead Switch	19	\$283
vOS_9962	Overhead Switch	19	\$283
vOS_9963	Overhead Switch	21	\$283
vOS_9964	Overhead Switch	18	\$283
vOS_9965	Overhead Switch	29	\$283
vOS_9966	Overhead Switch	48	\$283
vOS_9967	Overhead Switch	18	\$283
vOS_9968	Overhead Switch	19	\$283
vOS_9969	Overhead Switch	21	\$283
vOS_9970	Overhead Switch	19	\$283
vOS_9971	Overhead Switch	24	\$283
vOS_9972	Overhead Switch	30	\$284
vOS_9973	Overhead Switch	30	\$284
vOS_9974	Overhead Switch	18	\$283
vOS_9975	Overhead Switch	32	\$283
vOS_9976	Overhead Switch	17	\$289
vOS_9977	Overhead Switch	20	\$283
vOS_9978	Overhead Switch	18	\$283
vOS_9979	Overhead Switch	21	\$283
vOS_9980	Overhead Switch	27	\$283

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOS_9981	Overhead Switch	34	\$283
vOS_9982	Overhead Switch	30	\$284
vOS_9983	Overhead Switch	52	\$283
vOS_9984	Overhead Switch	20	\$283
vOS_9985	Overhead Switch	18	\$283
vOS_9986	Overhead Switch	17	\$283
vOS_9987	Overhead Switch	20	\$283
vOS_9988	Overhead Switch	29	\$283
vOS_9989	Overhead Switch	41	\$283
vOS_9990	Overhead Switch	25	\$285
vOS_9991	Overhead Switch	41	\$283
vOS_9992	Overhead Switch	20	\$283
vOS_9993	Overhead Switch	20	\$283
vOS_9994	Overhead Switch	40	\$283
vOS_9995	Overhead Switch	18	\$283
vOS_9996	Overhead Switch	19	\$283
vOS_9997	Overhead Switch	20	\$283
vOS_9998	Overhead Switch	25	\$285
vOS_9999	Overhead Switch	21	\$283
vOT_15332	Overhead Transformer	40	\$2,948
vOT_15333	Overhead Transformer	22	\$9,263
vOT_15334	Overhead Transformer	27	\$3,989
vOT_15335	Overhead Transformer	23	\$6,476
vOT_15336	Overhead Transformer	23	\$6,476
vOT_15337	Overhead Transformer	23	\$6,476
vOT_15338	Overhead Transformer	37	\$4,341

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOT_15339	Overhead Transformer	26	\$4,404
vOT_15340	Overhead Transformer	23	\$6,476
vOT_15341	Overhead Transformer	23	\$6,476
vOT_15342	Overhead Transformer	23	\$8,804
vOT_15343	Overhead Transformer	30	\$3,527
vOT_15344	Overhead Transformer	26	\$4,404
vOT_15345	Overhead Transformer	23	\$6,476
vOT_15346	Overhead Transformer	23	\$6,476
vOT_15347	Overhead Transformer	40	\$2,948
vOT_15348	Overhead Transformer	20	\$27,525
vOT_15349	Overhead Transformer	23	\$6,476
vOT_15350	Overhead Transformer	31	\$3,326
vOT_15351	Overhead Transformer	23	\$6,476
vOT_15352	Overhead Transformer	40	\$2,948
vOT_15353	Overhead Transformer	37	\$4,333
vOT_15354	Overhead Transformer	40	\$2,948
vOT_15355	Overhead Transformer	23	\$6,476
vOT_15356	Overhead Transformer	25	\$7,955
vOT_15357	Overhead Transformer	23	\$6,476
vOT_15358	Overhead Transformer	23	\$6,476
vOT_15359	Overhead Transformer	26	\$4,404
vOT_15360	Overhead Transformer	23	\$8,804
vOT_15361	Overhead Transformer	26	\$7,491
vOT_15362	Overhead Transformer	40	\$2,948
vOT_15363	Overhead Transformer	26	\$4,404
vOT_15364	Overhead Transformer	12	\$53,592

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOT_15365	Overhead Transformer	25	\$5,741
vOT_15366	Overhead Transformer	25	\$5,741
vOT_15367	Overhead Transformer	48	\$1,650
vOT_15368	Overhead Transformer	26	\$4,404
vOT_15369	Overhead Transformer	26	\$4,404
vOT_15370	Overhead Transformer	26	\$4,404
vOT_15371	Overhead Transformer	53	\$1,396
vOT_15372	Overhead Transformer	25	\$5,741
vOT_15373	Overhead Transformer	26	\$4,404
vOT_15374	Overhead Transformer	26	\$4,404
vOT_15375	Overhead Transformer	25	\$5,741
vOT_15376	Overhead Transformer	23	\$6,476
vOT_15377	Overhead Transformer	25	\$5,741
vOT_15378	Overhead Transformer	26	\$4,404
vOT_15379	Overhead Transformer	25	\$5,741
vOT_15380	Overhead Transformer	25	\$5,741
vOT_15381	Overhead Transformer	25	\$5,741
vOT_15382	Overhead Transformer	44	\$2,515
vOT_15383	Overhead Transformer	26	\$4,404
vOT_15384	Overhead Transformer	30	\$3,527
vOT_15385	Overhead Transformer	23	\$6,476
vOT_15386	Overhead Transformer	26	\$4,404
vOT_15387	Overhead Transformer	28	\$3,971
vOT_15388	Overhead Transformer	44	\$2,515
vOT_15389	Overhead Transformer	25	\$5,741
vOT_15390	Overhead Transformer	25	\$5,741

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOT_15391	Overhead Transformer	26	\$4,404
vOT_15392	Overhead Transformer	40	\$3,893
vOT_15393	Overhead Transformer	28	\$3,971
vOT_15394	Overhead Transformer	28	\$3,971
vOT_15395	Overhead Transformer	26	\$4,404
vOT_15396	Overhead Transformer	26	\$4,404
vOT_15397	Overhead Transformer	25	\$5,741
vOT_15398	Overhead Transformer	23	\$6,476
vOT_15399	Overhead Transformer	25	\$5,741
vOT_15400	Overhead Transformer	26	\$4,404
vOT_15401	Overhead Transformer	23	\$6,476
vOT_15402	Overhead Transformer	26	\$4,404
vOT_15403	Overhead Transformer	28	\$3,971
vOT_15404	Overhead Transformer	25	\$5,741
vOT_15405	Overhead Transformer	26	\$4,404
vOT_15406	Overhead Transformer	26	\$4,404
vOT_15407	Overhead Transformer	23	\$6,476
vOT_15408	Overhead Transformer	26	\$4,404
vOT_15409	Overhead Transformer	26	\$4,404
vOT_15410	Overhead Transformer	30	\$3,527
vOT_15411	Overhead Transformer	25	\$5,741
vOT_15412	Overhead Transformer	26	\$4,404
vOT_15413	Overhead Transformer	25	\$5,741
vOT_15414	Overhead Transformer	26	\$4,404
vOT_15415	Overhead Transformer	23	\$6,476
vOT_15416	Overhead Transformer	23	\$6,476

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOT_15417	Overhead Transformer	26	\$4,404
vOT_15418	Overhead Transformer	26	\$4,404
vOT_15419	Overhead Transformer	25	\$5,741
vOT_15420	Overhead Transformer	26	\$4,404
vOT_15421	Overhead Transformer	26	\$4,404
vOT_15422	Overhead Transformer	23	\$6,476
vOT_15423	Overhead Transformer	28	\$3,971
vOT_15424	Overhead Transformer	25	\$5,741
vOT_15425	Overhead Transformer	25	\$5,741
vOT_15426	Overhead Transformer	23	\$6,476
vOT_15427	Overhead Transformer	25	\$5,741
vOT_15428	Overhead Transformer	26	\$4,404
vOT_15429	Overhead Transformer	26	\$4,404
vOT_15430	Overhead Transformer	28	\$3,971
vOT_15431	Overhead Transformer	26	\$4,404
vOT_15432	Overhead Transformer	26	\$4,404
vOT_15433	Overhead Transformer	48	\$1,650
vOT_15434	Overhead Transformer	23	\$6,476
vOT_15435	Overhead Transformer	28	\$3,971
vOT_15436	Overhead Transformer	23	\$6,476
vOT_15437	Overhead Transformer	26	\$4,404
vOT_15438	Overhead Transformer	23	\$6,476
vOT_15439	Overhead Transformer	23	\$6,476
vOT_15440	Overhead Transformer	28	\$3,971
vOT_15441	Overhead Transformer	25	\$5,741
vOT_15442	Overhead Transformer	23	\$6,476

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOT_15443	Overhead Transformer	23	\$6,476
vOT_15444	Overhead Transformer	26	\$4,404
vOT_15445	Overhead Transformer	28	\$3,971
vOT_15446	Overhead Transformer	44	\$1,902
vOT_15447	Overhead Transformer	26	\$4,404
vOT_15448	Overhead Transformer	30	\$3,527
vOT_15449	Overhead Transformer	48	\$1,650
vOT_15450	Overhead Transformer	40	\$2,948
vOT_15451	Overhead Transformer	48	\$1,650
vOT_15452	Overhead Transformer	36	\$8,738
vOT_15453	Overhead Transformer	26	\$4,404
vOT_15454	Overhead Transformer	23	\$6,476
vOT_15455	Overhead Transformer	44	\$1,902
vOT_15456	Overhead Transformer	48	\$1,650
vOT_15457	Overhead Transformer	30	\$3,527
vOT_15458	Overhead Transformer	26	\$4,404
vOT_15459	Overhead Transformer	23	\$6,476
vOT_15460	Overhead Transformer	44	\$1,902
vOT_15461	Overhead Transformer	25	\$5,741
vOT_15462	Overhead Transformer	23	\$6,476
vOT_15463	Overhead Transformer	28	\$3,971
vOT_15464	Overhead Transformer	26	\$4,404
vOT_15465	Overhead Transformer	44	\$2,515
vOT_15466	Overhead Transformer	23	\$6,476
vOT_15467	Overhead Transformer	30	\$3,527
vOT_15468	Overhead Transformer	44	\$1,902

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOT_15469	Overhead Transformer	28	\$3,971
vOT_15470	Overhead Transformer	30	\$3,527
vOT_15471	Overhead Transformer	28	\$3,971
vOT_15472	Overhead Transformer	23	\$6,476
vOT_15473	Overhead Transformer	23	\$6,476
vOT_15474	Overhead Transformer	28	\$3,971
vOT_15475	Overhead Transformer	44	\$1,902
vOT_15476	Overhead Transformer	23	\$6,476
vOT_15477	Overhead Transformer	26	\$4,404
vOT_15478	Overhead Transformer	48	\$1,650
vOT_15479	Overhead Transformer	53	\$1,396
vOT_15480	Overhead Transformer	30	\$3,527
vOT_15481	Overhead Transformer	25	\$5,741
vOT_15482	Overhead Transformer	29	\$8,334
vOT_15483	Overhead Transformer	25	\$5,741
vOT_15484	Overhead Transformer	48	\$1,650
vOT_15485	Overhead Transformer	44	\$2,515
vOT_15486	Overhead Transformer	25	\$5,741
vOT_15487	Overhead Transformer	25	\$5,741
vOT_15488	Overhead Transformer	44	\$1,902
vOT_15489	Overhead Transformer	25	\$5,741
vOT_15490	Overhead Transformer	26	\$4,404
vOT_15491	Overhead Transformer	25	\$5,741
vOT_15492	Overhead Transformer	28	\$3,971
vOT_15493	Overhead Transformer	23	\$6,476
vOT_15494	Overhead Transformer	28	\$3,971

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOT_15495	Overhead Transformer	26	\$4,404
vOT_15496	Overhead Transformer	28	\$3,971
vOT_15497	Overhead Transformer	25	\$5,741
vOT_15498	Overhead Transformer	28	\$3,971
vOT_15499	Overhead Transformer	25	\$5,741
vOT_15500	Overhead Transformer	26	\$4,404
vOT_15501	Overhead Transformer	26	\$4,404
vOT_15502	Overhead Transformer	26	\$4,404
vOT_15503	Overhead Transformer	44	\$1,902
vOT_15504	Overhead Transformer	28	\$3,971
vOT_15505	Overhead Transformer	26	\$4,404
vOT_15506	Overhead Transformer	44	\$1,902
vOT_15507	Overhead Transformer	28	\$3,971
vOT_15508	Overhead Transformer	25	\$5,741
vOT_15509	Overhead Transformer	26	\$4,404
vOT_15510	Overhead Transformer	26	\$4,404
vOT_15511	Overhead Transformer	26	\$4,404
vOT_15512	Overhead Transformer	26	\$4,404
vOT_15513	Overhead Transformer	26	\$4,404
vOT_15514	Overhead Transformer	23	\$6,476
vOT_15515	Overhead Transformer	23	\$6,476
vOT_15516	Overhead Transformer	25	\$5,741
vOT_15517	Overhead Transformer	23	\$6,476
vOT_15518	Overhead Transformer	27	\$9,344
vOT_15519	Overhead Transformer	25	\$5,741
vOT_15520	Overhead Transformer	27	\$9,344

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOT_15521	Overhead Transformer	23	\$6,476
vOT_15522	Overhead Transformer	23	\$6,476
vOT_15523	Overhead Transformer	27	\$9,344
vOT_15524	Overhead Transformer	28	\$3,971
vOT_15525	Overhead Transformer	26	\$4,404
vOT_15526	Overhead Transformer	23	\$6,476
vOT_15527	Overhead Transformer	23	\$6,476
vOT_15528	Overhead Transformer	26	\$4,404
vOT_15529	Overhead Transformer	44	\$1,902
vOT_15530	Overhead Transformer	25	\$5,741
vOT_15531	Overhead Transformer	23	\$6,476
vOT_15532	Overhead Transformer	26	\$4,404
vOT_15533	Overhead Transformer	25	\$5,741
vOT_15534	Overhead Transformer	23	\$6,476
vOT_15535	Overhead Transformer	24	\$6,605
vOT_15536	Overhead Transformer	25	\$5,741
vOT_15537	Overhead Transformer	25	\$5,741
vOT_15538	Overhead Transformer	23	\$6,476
vOT_15539	Overhead Transformer	0	\$7,768
vOT_15540	Overhead Transformer	27	\$9,247
vOT_15541	Overhead Transformer	25	\$5,741
vOT_15542	Overhead Transformer	26	\$4,404
vOT_15543	Overhead Transformer	26	\$4,404
vOT_15544	Overhead Transformer	23	\$6,476
vOT_15545	Overhead Transformer	28	\$3,971
vOT_15546	Overhead Transformer	28	\$3,971

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vOT_15547	Overhead Transformer	25	\$5,741
vOT_15548	Overhead Transformer	26	\$4,404
vPO_37059	Poles	40	\$3,715
vPO_37060	Poles	99	\$838
vPO_37061	Poles	95	\$855
vPO_37062	Poles	92	\$854
vPO_37063	Poles	92	\$854
vPO_37064	Poles	40	\$3,712
vPO_37065	Poles	86	\$995
vPO_37066	Poles	97	\$1,016
vPO_37067	Poles	95	\$765
vPO_37068	Poles	85	\$995
vPO_37069	Poles	65	\$1,770
vPO_37070	Poles	95	\$851
vPO_37071	Poles	72	\$1,299
vPO_37072	Poles	91	\$1,001
vPO_37073	Poles	99	\$219
vPO_37074	Poles	86	\$996
vPO_37075	Poles	95	\$983
vPO_37076	Poles	95	\$852
vPO_37077	Poles	65	\$1,637
vPO_37078	Poles	99	\$407
vPO_37079	Poles	99	\$407
vPO_37080	Poles	97	\$1,103
vPO_37081	Poles	72	\$1,299
vPO_37082	Poles	99	\$412

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37083	Poles	99	\$215
vPO_37084	Poles	67	\$1,819
vPO_37085	Poles	99	\$540
vPO_37086	Poles	85	\$998
vPO_37087	Poles	85	\$995
vPO_37088	Poles	99	\$407
vPO_37089	Poles	77	\$1,315
vPO_37090	Poles	95	\$851
vPO_37091	Poles	99	\$98
vPO_37092	Poles	85	\$998
vPO_37093	Poles	97	\$802
vPO_37094	Poles	90	\$848
vPO_37095	Poles	89	\$848
vPO_37096	Poles	70	\$1,290
vPO_37097	Poles	85	\$995
vPO_37098	Poles	65	\$1,767
vPO_37099	Poles	85	\$995
vPO_37100	Poles	97	\$802
vPO_37101	Poles	85	\$995
vPO_37102	Poles	99	\$273
vPO_37103	Poles	95	\$856
vPO_37104	Poles	72	\$1,299
vPO_37105	Poles	65	\$1,767
vPO_37106	Poles	99	\$412
vPO_37107	Poles	99	\$251
vPO_37108	Poles	95	\$851

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37109	Poles	95	\$851
vPO_37110	Poles	92	\$850
vPO_37111	Poles	74	\$1,308
vPO_37112	Poles	41	\$3,791
vPO_37113	Poles	40	\$3,745
vPO_37114	Poles	64	\$1,839
vPO_37115	Poles	99	\$412
vPO_37116	Poles	85	\$998
vPO_37117	Poles	99	\$543
vPO_37118	Poles	95	\$851
vPO_37119	Poles	94	\$1,006
vPO_37120	Poles	99	\$544
vPO_37121	Poles	92	\$850
vPO_37122	Poles	99	\$802
vPO_37123	Poles	88	\$998
vPO_37124	Poles	63	\$1,627
vPO_37125	Poles	72	\$1,303
vPO_37126	Poles	94	\$1,007
vPO_37127	Poles	65	\$1,640
vPO_37128	Poles	63	\$1,630
vPO_37129	Poles	95	\$851
vPO_37130	Poles	65	\$1,637
vPO_37131	Poles	85	\$995
vPO_37132	Poles	85	\$995
vPO_37133	Poles	92	\$849
vPO_37134	Poles	77	\$1,316

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37135	Poles	77	\$1,316
vPO_37136	Poles	95	\$983
vPO_37137	Poles	98	\$766
vPO_37138	Poles	63	\$1,627
vPO_37139	Poles	88	\$998
vPO_37140	Poles	93	\$982
vPO_37141	Poles	85	\$998
vPO_37142	Poles	88	\$998
vPO_37143	Poles	85	\$995
vPO_37144	Poles	95	\$855
vPO_37145	Poles	74	\$1,312
vPO_37146	Poles	99	\$273
vPO_37147	Poles	85	\$998
vPO_37148	Poles	77	\$1,626
vPO_37149	Poles	99	\$153
vPO_37150	Poles	99	\$122
vPO_37151	Poles	67	\$2,197
vPO_37152	Poles	99	\$321
vPO_37153	Poles	76	\$1,587
vPO_37154	Poles	99	\$449
vPO_37155	Poles	70	\$1,855
vPO_37156	Poles	99	\$449
vPO_37157	Poles	99	\$288
vPO_37158	Poles	99	\$251
vPO_37159	Poles	99	\$284
vPO_37160	Poles	99	\$420

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37161	Poles	99	\$582
vPO_37162	Poles	99	\$585
vPO_37163	Poles	71	\$2,032
vPO_37164	Poles	99	\$284
vPO_37165	Poles	71	\$1,858
vPO_37166	Poles	70	\$1,855
vPO_37167	Poles	73	\$2,316
vPO_37168	Poles	78	\$1,282
vPO_37169	Poles	99	\$420
vPO_37170	Poles	99	\$270
vPO_37171	Poles	99	\$153
vPO_37172	Poles	74	\$1,856
vPO_37173	Poles	99	\$450
vPO_37174	Poles	70	\$1,855
vPO_37175	Poles	77	\$1,630
vPO_37176	Poles	79	\$1,260
vPO_37177	Poles	99	\$582
vPO_37178	Poles	70	\$1,855
vPO_37179	Poles	99	\$266
vPO_37180	Poles	99	\$255
vPO_37181	Poles	99	\$269
vPO_37182	Poles	99	\$266
vPO_37183	Poles	70	\$1,859
vPO_37184	Poles	99	\$149
vPO_37185	Poles	99	\$321
vPO_37186	Poles	55	\$3,807

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37187	Poles	87	\$1,210
vPO_37188	Poles	75	\$1,603
vPO_37189	Poles	99	\$149
vPO_37190	Poles	73	\$1,920
vPO_37191	Poles	69	\$2,009
vPO_37192	Poles	69	\$1,529
vPO_37193	Poles	99	\$266
vPO_37194	Poles	99	\$266
vPO_37195	Poles	99	\$585
vPO_37196	Poles	99	\$317
vPO_37197	Poles	99	\$266
vPO_37198	Poles	99	\$270
vPO_37199	Poles	70	\$1,855
vPO_37200	Poles	72	\$2,022
vPO_37201	Poles	99	\$77
vPO_37202	Poles	99	\$285
vPO_37203	Poles	87	\$1,213
vPO_37204	Poles	70	\$1,855
vPO_37205	Poles	76	\$1,685
vPO_37206	Poles	99	\$266
vPO_37207	Poles	99	\$251
vPO_37208	Poles	99	\$284
vPO_37209	Poles	70	\$1,855
vPO_37210	Poles	99	\$255
vPO_37211	Poles	71	\$1,858
vPO_37212	Poles	70	\$1,859

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37213	Poles	99	\$251
vPO_37214	Poles	72	\$1,881
vPO_37215	Poles	99	\$453
vPO_37216	Poles	99	\$267
vPO_37217	Poles	99	\$288
vPO_37218	Poles	99	\$483
vPO_37219	Poles	99	\$266
vPO_37220	Poles	80	\$1,253
vPO_37221	Poles	99	\$285
vPO_37222	Poles	99	\$416
vPO_37223	Poles	99	\$251
vPO_37224	Poles	78	\$1,698
vPO_37225	Poles	99	\$149
vPO_37226	Poles	99	\$271
vPO_37227	Poles	70	\$1,855
vPO_37228	Poles	99	\$149
vPO_37229	Poles	99	\$317
vPO_37230	Poles	99	\$176
vPO_37231	Poles	99	\$450
vPO_37232	Poles	70	\$1,933
vPO_37233	Poles	99	\$453
vPO_37234	Poles	70	\$1,859
vPO_37235	Poles	99	\$202
vPO_37236	Poles	99	\$251
vPO_37237	Poles	75	\$2,130
vPO_37238	Poles	99	\$251

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37239	Poles	99	\$449
vPO_37240	Poles	78	\$1,672
vPO_37241	Poles	99	\$149
vPO_37242	Poles	99	\$449
vPO_37243	Poles	99	\$285
vPO_37244	Poles	99	\$417
vPO_37245	Poles	35	\$5,076
vPO_37246	Poles	35	\$5,078
vPO_37247	Poles	36	\$5,809
vPO_37248	Poles	35	\$5,635
vPO_37249	Poles	35	\$5,076
vPO_37250	Poles	99	\$420
vPO_37251	Poles	35	\$5,076
vPO_37252	Poles	35	\$5,076
vPO_37253	Poles	35	\$5,076
vPO_37254	Poles	36	\$5,101
vPO_37255	Poles	36	\$5,101
vPO_37256	Poles	25	\$10,909
vPO_37257	Poles	37	\$5,403
vPO_37258	Poles	25	\$9,267
vPO_37259	Poles	36	\$5,790
vPO_37260	Poles	25	\$9,268
vPO_37261	Poles	37	\$5,246
vPO_37262	Poles	37	\$5,385
vPO_37263	Poles	37	\$5,246
vPO_37264	Poles	37	\$5,244

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37265	Poles	24	\$8,890
vPO_37266	Poles	35	\$5,076
vPO_37267	Poles	35	\$5,660
vPO_37268	Poles	35	\$5,076
vPO_37269	Poles	36	\$5,202
vPO_37270	Poles	35	\$5,076
vPO_37271	Poles	99	\$431
vPO_37272	Poles	99	\$121
vPO_37273	Poles	99	\$449
vPO_37274	Poles	99	\$187
vPO_37275	Poles	99	\$266
vPO_37276	Poles	99	\$350
vPO_37277	Poles	99	\$183
vPO_37278	Poles	33	\$6,309
vPO_37279	Poles	99	\$449
vPO_37280	Poles	99	\$99
vPO_37281	Poles	99	\$121
vPO_37282	Poles	99	\$383
vPO_37283	Poles	99	\$383
vPO_37284	Poles	99	\$68
vPO_37285	Poles	99	\$266
vPO_37286	Poles	32	\$6,104
vPO_37287	Poles	99	\$265
vPO_37288	Poles	34	\$6,848
vPO_37289	Poles	99	\$541
vPO_37290	Poles	99	\$64

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37291	Poles	33	\$6,311
vPO_37292	Poles	99	\$568
vPO_37293	Poles	99	\$265
vPO_37294	Poles	99	\$183
vPO_37295	Poles	99	\$430
vPO_37296	Poles	99	\$383
vPO_37297	Poles	99	\$125
vPO_37298	Poles	99	\$564
vPO_37299	Poles	99	\$565
vPO_37300	Poles	99	\$125
vPO_37301	Poles	99	\$99
vPO_37302	Poles	99	\$64
vPO_37303	Poles	99	\$64
vPO_37304	Poles	34	\$6,508
vPO_37305	Poles	33	\$6,310
vPO_37306	Poles	99	\$453
vPO_37307	Poles	33	\$6,455
vPO_37308	Poles	99	\$99
vPO_37309	Poles	99	\$68
vPO_37310	Poles	99	\$383
vPO_37311	Poles	99	\$449
vPO_37312	Poles	33	\$6,311
vPO_37313	Poles	99	\$265
vPO_37314	Poles	99	\$265
vPO_37315	Poles	99	\$122
vPO_37316	Poles	99	\$99

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37317	Poles	33	\$6,317
vPO_37318	Poles	99	\$121
vPO_37319	Poles	99	\$64
vPO_37320	Poles	33	\$6,450
vPO_37321	Poles	99	\$317
vPO_37322	Poles	99	\$383
vPO_37323	Poles	99	\$387
vPO_37324	Poles	99	\$99
vPO_37325	Poles	99	\$183
vPO_37326	Poles	99	\$383
vPO_37327	Poles	99	\$185
vPO_37328	Poles	99	\$64
vPO_37329	Poles	99	\$103
vPO_37330	Poles	99	\$64
vPO_37331	Poles	99	\$449
vPO_37332	Poles	99	\$578
vPO_37333	Poles	99	\$449
vPO_37334	Poles	99	\$563
vPO_37335	Poles	99	\$564
vPO_37336	Poles	58	\$1,955
vPO_37337	Poles	33	\$6,310
vPO_37338	Poles	99	\$189
vPO_37339	Poles	99	\$265
vPO_37340	Poles	99	\$682
vPO_37341	Poles	99	\$383
vPO_37342	Poles	99	\$449

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37343	Poles	99	\$270
vPO_37344	Poles	99	\$265
vPO_37345	Poles	99	\$568
vPO_37346	Poles	99	\$99
vPO_37347	Poles	99	\$564
vPO_37348	Poles	99	\$187
vPO_37349	Poles	32	\$6,104
vPO_37350	Poles	99	\$578
vPO_37351	Poles	33	\$6,309
vPO_37352	Poles	99	\$449
vPO_37353	Poles	99	\$448
vPO_37354	Poles	99	\$103
vPO_37355	Poles	99	\$103
vPO_37356	Poles	99	\$578
vPO_37357	Poles	32	\$6,104
vPO_37358	Poles	99	\$265
vPO_37359	Poles	99	\$450
vPO_37360	Poles	99	\$121
vPO_37361	Poles	99	\$383
vPO_37362	Poles	99	\$383
vPO_37363	Poles	99	\$270
vPO_37364	Poles	99	\$99
vPO_37365	Poles	33	\$6,309
vPO_37366	Poles	99	\$450
vPO_37367	Poles	33	\$6,310
vPO_37368	Poles	99	\$252

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37369	Poles	60	\$1,977
vPO_37370	Poles	99	\$387
vPO_37371	Poles	33	\$6,311
vPO_37372	Poles	99	\$121
vPO_37373	Poles	99	\$265
vPO_37374	Poles	99	\$185
vPO_37375	Poles	99	\$383
vPO_37376	Poles	99	\$383
vPO_37377	Poles	99	\$387
vPO_37378	Poles	99	\$110
vPO_37379	Poles	99	\$453
vPO_37380	Poles	33	\$6,464
vPO_37381	Poles	99	\$121
vPO_37382	Poles	99	\$122
vPO_37383	Poles	34	\$6,500
vPO_37384	Poles	99	\$449
vPO_37385	Poles	99	\$99
vPO_37386	Poles	99	\$99
vPO_37387	Poles	99	\$453
vPO_37388	Poles	99	\$183
vPO_37389	Poles	99	\$125
vPO_37390	Poles	99	\$121
vPO_37391	Poles	99	\$564
vPO_37392	Poles	33	\$6,417
vPO_37393	Poles	99	\$578
vPO_37394	Poles	33	\$6,310

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37395	Poles	99	\$387
vPO_37396	Poles	99	\$183
vPO_37397	Poles	99	\$449
vPO_37398	Poles	99	\$383
vPO_37399	Poles	33	\$6,733
vPO_37400	Poles	99	\$673
vPO_37401	Poles	83	\$1,409
vPO_37402	Poles	99	\$669
vPO_37403	Poles	99	\$673
vPO_37404	Poles	99	\$673
vPO_37405	Poles	99	\$669
vPO_37406	Poles	99	\$678
vPO_37407	Poles	99	\$673
vPO_37408	Poles	90	\$1,310
vPO_37409	Poles	99	\$673
vPO_37410	Poles	84	\$1,281
vPO_37411	Poles	99	\$669
vPO_37412	Poles	34	\$7,048
vPO_37413	Poles	99	\$304
vPO_37414	Poles	99	\$534
vPO_37415	Poles	99	\$304
vPO_37416	Poles	99	\$530
vPO_37417	Poles	99	\$304
vPO_37418	Poles	99	\$300
vPO_37419	Poles	99	\$301
vPO_37420	Poles	99	\$530

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37421	Poles	99	\$530
vPO_37422	Poles	99	\$300
vPO_37423	Poles	99	\$355
vPO_37424	Poles	99	\$301
vPO_37425	Poles	99	\$530
vPO_37426	Poles	53	\$2,749
vPO_37427	Poles	99	\$534
vPO_37428	Poles	99	\$530
vPO_37429	Poles	99	\$534
vPO_37430	Poles	99	\$351
vPO_37431	Poles	99	\$530
vPO_37432	Poles	99	\$531
vPO_37433	Poles	99	\$530
vPO_37434	Poles	99	\$351
vPO_37435	Poles	99	\$530
vPO_37436	Poles	57	\$2,682
vPO_37437	Poles	99	\$534
vPO_37438	Poles	99	\$530
vPO_37439	Poles	99	\$300
vPO_37440	Poles	99	\$530
vPO_37441	Poles	99	\$354
vPO_37442	Poles	99	\$530
vPO_37443	Poles	99	\$531
vPO_37444	Poles	54	\$2,582
vPO_37445	Poles	99	\$531
vPO_37446	Poles	99	\$534

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37447	Poles	99	\$351
vPO_37448	Poles	99	\$530
vPO_37449	Poles	99	\$531
vPO_37450	Poles	99	\$530
vPO_37451	Poles	99	\$503
vPO_37452	Poles	99	\$560
vPO_37453	Poles	37	\$4,746
vPO_37454	Poles	99	\$130
vPO_37455	Poles	37	\$4,724
vPO_37456	Poles	37	\$4,724
vPO_37457	Poles	38	\$4,779
vPO_37458	Poles	99	\$559
vPO_37459	Poles	99	\$670
vPO_37460	Poles	99	\$112
vPO_37461	Poles	99	\$559
vPO_37462	Poles	99	\$569
vPO_37463	Poles	99	\$112
vPO_37464	Poles	99	\$684
vPO_37465	Poles	99	\$569
vPO_37466	Poles	99	\$605
vPO_37467	Poles	99	\$572
vPO_37468	Poles	99	\$560
vPO_37469	Poles	99	\$569
vPO_37470	Poles	99	\$569
vPO_37471	Poles	99	\$567
vPO_37472	Poles	92	\$1,070

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of overhead front lot (NPV)
Total		\$1,782,939	
vPO_37473	Poles	99	\$568
vPO_37474	Poles	99	\$559
vPO_37475	Poles	99	\$605
vPO_37476	Poles	99	\$632
vPO_37477	Poles	99	\$605
vPO_37478	Poles	99	\$90
vPO_37479	Poles	99	\$888
vPO_37480	Poles	99	\$666
vPO_37481	Poles	99	\$609
vPO_37482	Poles	99	\$321
vPO_37483	Poles	99	\$90
vPO_37484	Poles	91	\$1,079
vPO_37485	Poles	31	\$9,082
vPO_37486	Poles	99	\$399
vPO_37487	Poles	32	\$9,693
vPO_37488	Poles	99	\$659

- 1 **Projected non-asset risk cost of overhead front lot (NPV)**
- 2 Event Cost Total = \$42,433,791.27
- 3 Duration Cost Total = \$24,018,988.14
- 4 NAR = \$66,452,779.41

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

1 **Maintenance**

2 Tree Trimming = \$39,551.97

3 Wood Pole Inspections = \$1,271.66

4 Discount Rate = 0.0606

5 Total = $(\$39,551.97 + \$1,271.66) / 0.0606 = \$673,657.31$

6
7

8 **Option 4: Replacement of Existing O/H Rear Lot with New U/G Front Lot**

9 **Table 4:** Input data for Projected Risk Cost of Underground Front Lot

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37453	Underground Cable	99	\$10,102
vUC_37454	Underground Cable	99	\$8,905
vUC_37455	Underground Cable	99	\$108
vUC_37456	Underground Cable	99	\$9,246
vUC_37457	Underground Cable	99	\$9,187
vUC_37458	Underground Cable	99	\$9,014
vUC_37459	Underground Cable	99	\$9,722
vUC_37460	Underground Cable	99	\$50
vUC_37461	Underground Cable	99	\$61
vUC_37462	Underground Cable	99	\$10,150
vUC_37463	Underground Cable	99	\$8,928
vUC_37464	Underground Cable	99	\$10,168
vUC_37465	Underground Cable	99	\$9,484
vUC_37466	Underground Cable	99	\$10,398

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37467	Underground Cable	99	\$79
vUC_37468	Underground Cable	99	\$9,480
vUC_37469	Underground Cable	99	\$9,224
vUC_37470	Underground Cable	99	\$9,075
vUC_37471	Underground Cable	99	\$79
vUC_37472	Underground Cable	99	\$9,260
vUC_37473	Underground Cable	78	\$621
vUC_37474	Underground Cable	87	\$349
vUC_37475	Underground Cable	80	\$543
vUC_37476	Underground Cable	76	\$698
vUC_37477	Underground Cable	80	\$526
vUC_37478	Underground Cable	81	\$21,394
vUC_37479	Underground Cable	84	\$18,829
vUC_37480	Underground Cable	80	\$23,972
vUC_37481	Underground Cable	77	\$639
vUC_37482	Underground Cable	77	\$635
vUC_37483	Underground Cable	86	\$373
vUC_37484	Underground Cable	80	\$523
vUC_37485	Underground Cable	79	\$563
vUC_37486	Underground Cable	78	\$627
vUC_37487	Underground Cable	81	\$21,685
vUC_37488	Underground Cable	86	\$370
vUC_37489	Underground Cable	81	\$505
vUC_37490	Underground Cable	76	\$688
vUC_37491	Underground Cable	77	\$673
vUC_37492	Underground Cable	99	\$79

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37493	Underground Cable	91	\$299
vUC_37494	Underground Cable	99	\$50
vUC_37495	Underground Cable	74	\$801
vUC_37496	Underground Cable	79	\$554
vUC_37497	Underground Cable	76	\$717
vUC_37498	Underground Cable	76	\$713
vUC_37499	Underground Cable	73	\$932
vUC_37500	Underground Cable	79	\$567
vUC_37501	Underground Cable	79	\$569
vUC_37502	Underground Cable	78	\$27,102
vUC_37503	Underground Cable	80	\$23,364
vUC_37504	Underground Cable	77	\$636
vUC_37505	Underground Cable	85	\$17,993
vUC_37506	Underground Cable	80	\$23,128
vUC_37507	Underground Cable	80	\$23,827
vUC_37508	Underground Cable	82	\$20,326
vUC_37509	Underground Cable	74	\$785
vUC_37510	Underground Cable	76	\$719
vUC_37511	Underground Cable	73	\$927
vUC_37512	Underground Cable	92	\$14,163
vUC_37513	Underground Cable	86	\$380
vUC_37514	Underground Cable	96	\$231
vUC_37515	Underground Cable	73	\$858
vUC_37516	Underground Cable	84	\$422
vUC_37517	Underground Cable	77	\$641
vUC_37518	Underground Cable	80	\$529

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37519	Underground Cable	84	\$422
vUC_37520	Underground Cable	74	\$848
vUC_37521	Underground Cable	75	\$779
vUC_37522	Underground Cable	74	\$834
vUC_37523	Underground Cable	81	\$507
vUC_37524	Underground Cable	78	\$610
vUC_37525	Underground Cable	82	\$473
vUC_37526	Underground Cable	86	\$386
vUC_37527	Underground Cable	75	\$767
vUC_37528	Underground Cable	72	\$949
vUC_37529	Underground Cable	75	\$760
vUC_37530	Underground Cable	78	\$617
vUC_37531	Underground Cable	80	\$23,141
vUC_37532	Underground Cable	74	\$19,383
vUC_37533	Underground Cable	76	\$17,491
vUC_37534	Underground Cable	73	\$28,701
vUC_37535	Underground Cable	74	\$24,588
vUC_37536	Underground Cable	69	\$28,886
vUC_37537	Underground Cable	78	\$614
vUC_37538	Underground Cable	80	\$17,471
vUC_37539	Underground Cable	76	\$21,679
vUC_37540	Underground Cable	99	\$10,185
vUC_37541	Underground Cable	99	\$9,233
vUC_37542	Underground Cable	90	\$14,741
vUC_37543	Underground Cable	99	\$10,441
vUC_37544	Underground Cable	82	\$20,427

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37545	Underground Cable	83	\$444
vUC_37546	Underground Cable	73	\$861
vUC_37547	Underground Cable	81	\$499
vUC_37548	Underground Cable	81	\$21,712
vUC_37549	Underground Cable	79	\$25,369
vUC_37550	Underground Cable	99	\$128
vUC_37551	Underground Cable	82	\$474
vUC_37552	Underground Cable	99	\$71
vUC_37553	Underground Cable	97	\$225
vUC_37554	Underground Cable	91	\$291
vUC_37555	Underground Cable	84	\$416
vUC_37556	Underground Cable	97	\$220
vUC_37557	Underground Cable	85	\$391
vUC_37558	Underground Cable	91	\$14,463
vUC_37559	Underground Cable	79	\$554
vUC_37560	Underground Cable	81	\$507
vUC_37561	Underground Cable	80	\$529
vUC_37562	Underground Cable	81	\$510
vUC_37563	Underground Cable	73	\$871
vUC_37564	Underground Cable	79	\$552
vUC_37565	Underground Cable	79	\$25,469
vUC_37566	Underground Cable	82	\$479
vUC_37567	Underground Cable	79	\$556
vUC_37568	Underground Cable	99	\$137
vUC_37569	Underground Cable	75	\$758
vUC_37570	Underground Cable	76	\$690

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37571	Underground Cable	99	\$208
vUC_37572	Underground Cable	75	\$733
vUC_37573	Underground Cable	79	\$24,898
vUC_37574	Underground Cable	80	\$24,503
vUC_37575	Underground Cable	83	\$19,923
vUC_37576	Underground Cable	82	\$466
vUC_37577	Underground Cable	86	\$373
vUC_37578	Underground Cable	79	\$26,658
vUC_37579	Underground Cable	83	\$449
vUC_37580	Underground Cable	81	\$493
vUC_37581	Underground Cable	89	\$324
vUC_37582	Underground Cable	73	\$877
vUC_37583	Underground Cable	75	\$756
vUC_37584	Underground Cable	88	\$15,774
vUC_37585	Underground Cable	99	\$11,197
vUC_37586	Underground Cable	80	\$521
vUC_37587	Underground Cable	78	\$605
vUC_37588	Underground Cable	73	\$889
vUC_37589	Underground Cable	75	\$751
vUC_37590	Underground Cable	74	\$830
vUC_37591	Underground Cable	90	\$308
vUC_37592	Underground Cable	81	\$504
vUC_37593	Underground Cable	77	\$652
vUC_37594	Underground Cable	83	\$456
vUC_37595	Underground Cable	85	\$407
vUC_37596	Underground Cable	76	\$704

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37597	Underground Cable	76	\$715
vUC_37598	Underground Cable	78	\$619
vUC_37599	Underground Cable	77	\$657
vUC_37600	Underground Cable	82	\$20,822
vUC_37601	Underground Cable	80	\$23,405
vUC_37602	Underground Cable	80	\$23,405
vUC_37603	Underground Cable	79	\$24,748
vUC_37604	Underground Cable	78	\$27,456
vUC_37605	Underground Cable	79	\$583
vUC_37606	Underground Cable	79	\$24,857
vUC_37607	Underground Cable	86	\$384
vUC_37608	Underground Cable	79	\$565
vUC_37609	Underground Cable	90	\$15,019
vUC_37610	Underground Cable	99	\$26
vUC_37611	Underground Cable	77	\$668
vUC_37612	Underground Cable	82	\$21,018
vUC_37613	Underground Cable	86	\$376
vUC_37614	Underground Cable	86	\$17,166
vUC_37615	Underground Cable	86	\$385
vUC_37616	Underground Cable	81	\$486
vUC_37617	Underground Cable	83	\$452
vUC_37618	Underground Cable	86	\$17,184
vUC_37619	Underground Cable	78	\$28,172
vUC_37620	Underground Cable	76	\$714
vUC_37621	Underground Cable	79	\$26,349
vUC_37622	Underground Cable	79	\$24,136

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37623	Underground Cable	99	\$22
vUC_37624	Underground Cable	80	\$23,069
vUC_37625	Underground Cable	80	\$23,496
vUC_37626	Underground Cable	74	\$797
vUC_37627	Underground Cable	75	\$765
vUC_37628	Underground Cable	73	\$868
vUC_37629	Underground Cable	79	\$25,529
vUC_37630	Underground Cable	78	\$27,576
vUC_37631	Underground Cable	78	\$28,152
vUC_37632	Underground Cable	76	\$682
vUC_37633	Underground Cable	81	\$22,243
vUC_37634	Underground Cable	80	\$23,209
vUC_37635	Underground Cable	74	\$847
vUC_37636	Underground Cable	84	\$415
vUC_37637	Underground Cable	81	\$499
vUC_37638	Underground Cable	78	\$609
vUC_37639	Underground Cable	76	\$697
vUC_37640	Underground Cable	78	\$594
vUC_37641	Underground Cable	78	\$614
vUC_37642	Underground Cable	78	\$608
vUC_37643	Underground Cable	71	\$23,292
vUC_37644	Underground Cable	73	\$19,902
vUC_37645	Underground Cable	74	\$25,051
vUC_37646	Underground Cable	99	\$9,802
vUC_37647	Underground Cable	97	\$10,875
vUC_37648	Underground Cable	95	\$11,778

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37649	Underground Cable	70	\$26,822
vUC_37650	Underground Cable	79	\$583
vUC_37651	Underground Cable	77	\$30,444
vUC_37652	Underground Cable	77	\$664
vUC_37653	Underground Cable	78	\$28,744
vUC_37654	Underground Cable	79	\$25,964
vUC_37655	Underground Cable	85	\$407
vUC_37656	Underground Cable	82	\$475
vUC_37657	Underground Cable	75	\$730
vUC_37658	Underground Cable	80	\$24,476
vUC_37659	Underground Cable	72	\$1,026
vUC_37660	Underground Cable	81	\$502
vUC_37661	Underground Cable	85	\$393
vUC_37662	Underground Cable	89	\$331
vUC_37663	Underground Cable	99	\$21
vUC_37664	Underground Cable	90	\$313
vUC_37665	Underground Cable	84	\$430
vUC_37666	Underground Cable	80	\$525
vUC_37667	Underground Cable	91	\$294
vUC_37668	Underground Cable	76	\$706
vUC_37669	Underground Cable	93	\$268
vUC_37670	Underground Cable	80	\$534
vUC_37671	Underground Cable	99	\$148
vUC_37672	Underground Cable	84	\$418
vUC_37673	Underground Cable	79	\$553
vUC_37674	Underground Cable	74	\$806

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37675	Underground Cable	76	\$686
vUC_37676	Underground Cable	99	\$76
vUC_37677	Underground Cable	80	\$516
vUC_37678	Underground Cable	80	\$24,594
vUC_37679	Underground Cable	99	\$44
vUC_37680	Underground Cable	84	\$411
vUC_37681	Underground Cable	78	\$597
vUC_37682	Underground Cable	86	\$378
vUC_37683	Underground Cable	70	\$1,235
vUC_37684	Underground Cable	83	\$446
vUC_37685	Underground Cable	79	\$568
vUC_37686	Underground Cable	99	\$73
vUC_37687	Underground Cable	85	\$395
vUC_37688	Underground Cable	75	\$746
vUC_37689	Underground Cable	75	\$739
vUC_37690	Underground Cable	75	\$731
vUC_37691	Underground Cable	77	\$672
vUC_37692	Underground Cable	79	\$579
vUC_37693	Underground Cable	77	\$632
vUC_37694	Underground Cable	81	\$21,707
vUC_37695	Underground Cable	79	\$25,292
vUC_37696	Underground Cable	89	\$15,083
vUC_37697	Underground Cable	80	\$540
vUC_37698	Underground Cable	77	\$637
vUC_37699	Underground Cable	78	\$586
vUC_37700	Underground Cable	85	\$399

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37701	Underground Cable	83	\$19,692
vUC_37702	Underground Cable	73	\$900
vUC_37703	Underground Cable	82	\$20,346
vUC_37704	Underground Cable	76	\$717
vUC_37705	Underground Cable	75	\$775
vUC_37706	Underground Cable	80	\$535
vUC_37707	Underground Cable	99	\$10,579
vUC_37708	Underground Cable	77	\$637
vUC_37709	Underground Cable	72	\$958
vUC_37710	Underground Cable	86	\$384
vUC_37711	Underground Cable	81	\$21,767
vUC_37712	Underground Cable	89	\$318
vUC_37713	Underground Cable	82	\$474
vUC_37714	Underground Cable	79	\$573
vUC_37715	Underground Cable	77	\$647
vUC_37716	Underground Cable	76	\$679
vUC_37717	Underground Cable	76	\$679
vUC_37718	Underground Cable	73	\$865
vUC_37719	Underground Cable	78	\$27,288
vUC_37720	Underground Cable	78	\$602
vUC_37721	Underground Cable	77	\$31,020
vUC_37722	Underground Cable	79	\$585
vUC_37723	Underground Cable	82	\$21,077
vUC_37724	Underground Cable	82	\$20,959
vUC_37725	Underground Cable	76	\$713
vUC_37726	Underground Cable	81	\$22,425

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37727	Underground Cable	80	\$519
vUC_37728	Underground Cable	82	\$458
vUC_37729	Underground Cable	84	\$413
vUC_37730	Underground Cable	79	\$25,093
vUC_37731	Underground Cable	99	\$10,473
vUC_37732	Underground Cable	79	\$24,947
vUC_37733	Underground Cable	79	\$24,843
vUC_37734	Underground Cable	80	\$23,096
vUC_37735	Underground Cable	87	\$16,388
vUC_37736	Underground Cable	77	\$640
vUC_37737	Underground Cable	86	\$386
vUC_37738	Underground Cable	83	\$19,056
vUC_37739	Underground Cable	83	\$19,308
vUC_37740	Underground Cable	77	\$626
vUC_37741	Underground Cable	75	\$761
vUC_37742	Underground Cable	80	\$23,977
vUC_37743	Underground Cable	77	\$648
vUC_37744	Underground Cable	82	\$20,003
vUC_37745	Underground Cable	83	\$19,753
vUC_37746	Underground Cable	99	\$56
vUC_37747	Underground Cable	81	\$22,102
vUC_37748	Underground Cable	81	\$21,080
vUC_37749	Underground Cable	71	\$1,104
vUC_37750	Underground Cable	76	\$698
vUC_37751	Underground Cable	77	\$32,244
vUC_37752	Underground Cable	91	\$14,595

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37753	Underground Cable	76	\$715
vUC_37754	Underground Cable	76	\$709
vUC_37755	Underground Cable	79	\$24,617
vUC_37756	Underground Cable	75	\$756
vUC_37757	Underground Cable	74	\$827
vUC_37758	Underground Cable	82	\$479
vUC_37759	Underground Cable	79	\$24,907
vUC_37760	Underground Cable	83	\$19,415
vUC_37761	Underground Cable	73	\$919
vUC_37762	Underground Cable	80	\$536
vUC_37763	Underground Cable	79	\$551
vUC_37764	Underground Cable	80	\$22,524
vUC_37765	Underground Cable	75	\$783
vUC_37766	Underground Cable	81	\$22,565
vUC_37767	Underground Cable	79	\$24,108
vUC_37768	Underground Cable	76	\$687
vUC_37769	Underground Cable	82	\$20,196
vUC_37770	Underground Cable	83	\$19,453
vUC_37771	Underground Cable	80	\$23,082
vUC_37772	Underground Cable	75	\$23,138
vUC_37773	Underground Cable	75	\$22,789
vUC_37774	Underground Cable	81	\$505
vUC_37775	Underground Cable	72	\$22,875
vUC_37776	Underground Cable	77	\$20,898
vUC_37777	Underground Cable	73	\$21,055
vUC_37778	Underground Cable	78	\$594

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37779	Underground Cable	83	\$19,549
vUC_37780	Underground Cable	91	\$11,761
vUC_37781	Underground Cable	99	\$124
vUC_37782	Underground Cable	99	\$117
vUC_37783	Underground Cable	78	\$29,469
vUC_37784	Underground Cable	83	\$19,487
vUC_37785	Underground Cable	76	\$37,244
vUC_37786	Underground Cable	99	\$186
vUC_37787	Underground Cable	79	\$25,070
vUC_37788	Underground Cable	85	\$395
vUC_37789	Underground Cable	79	\$25,161
vUC_37790	Underground Cable	89	\$329
vUC_37791	Underground Cable	99	\$206
vUC_37792	Underground Cable	83	\$449
vUC_37793	Underground Cable	99	\$56
vUC_37794	Underground Cable	76	\$697
vUC_37795	Underground Cable	78	\$27,234
vUC_37796	Underground Cable	80	\$23,659
vUC_37797	Underground Cable	88	\$343
vUC_37798	Underground Cable	76	\$719
vUC_37799	Underground Cable	76	\$695
vUC_37800	Underground Cable	76	\$711
vUC_37801	Underground Cable	82	\$20,291
vUC_37802	Underground Cable	99	\$41
vUC_37803	Underground Cable	76	\$724
vUC_37804	Underground Cable	79	\$554

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37805	Underground Cable	82	\$470
vUC_37806	Underground Cable	79	\$585
vUC_37807	Underground Cable	75	\$759
vUC_37808	Underground Cable	83	\$436
vUC_37809	Underground Cable	80	\$23,845
vUC_37810	Underground Cable	83	\$19,846
vUC_37811	Underground Cable	99	\$9,531
vUC_37812	Underground Cable	80	\$23,836
vUC_37813	Underground Cable	78	\$612
vUC_37814	Underground Cable	81	\$493
vUC_37815	Underground Cable	99	\$70
vUC_37816	Underground Cable	75	\$782
vUC_37817	Underground Cable	83	\$452
vUC_37818	Underground Cable	72	\$958
vUC_37819	Underground Cable	79	\$580
vUC_37820	Underground Cable	86	\$370
vUC_37821	Underground Cable	77	\$662
vUC_37822	Underground Cable	76	\$679
vUC_37823	Underground Cable	79	\$25,564
vUC_37824	Underground Cable	83	\$438
vUC_37825	Underground Cable	79	\$565
vUC_37826	Underground Cable	85	\$407
vUC_37827	Underground Cable	81	\$506
vUC_37828	Underground Cable	76	\$711
vUC_37829	Underground Cable	80	\$527
vUC_37830	Underground Cable	73	\$891

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37831	Underground Cable	77	\$644
vUC_37832	Underground Cable	80	\$541
vUC_37833	Underground Cable	75	\$732
vUC_37834	Underground Cable	75	\$775
vUC_37835	Underground Cable	79	\$555
vUC_37836	Underground Cable	75	\$732
vUC_37837	Underground Cable	78	\$28,644
vUC_37838	Underground Cable	79	\$571
vUC_37839	Underground Cable	77	\$31,020
vUC_37840	Underground Cable	77	\$638
vUC_37841	Underground Cable	75	\$744
vUC_37842	Underground Cable	82	\$21,077
vUC_37843	Underground Cable	79	\$25,310
vUC_37844	Underground Cable	78	\$27,365
vUC_37845	Underground Cable	77	\$636
vUC_37846	Underground Cable	78	\$609
vUC_37847	Underground Cable	74	\$849
vUC_37848	Underground Cable	77	\$665
vUC_37849	Underground Cable	81	\$21,417
vUC_37850	Underground Cable	99	\$151
vUC_37851	Underground Cable	99	\$67
vUC_37852	Underground Cable	81	\$21,471
vUC_37853	Underground Cable	99	\$10,386
vUC_37854	Underground Cable	83	\$19,892
vUC_37855	Underground Cable	99	\$65
vUC_37856	Underground Cable	96	\$12,959

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37857	Underground Cable	81	\$498
vUC_37858	Underground Cable	83	\$433
vUC_37859	Underground Cable	78	\$601
vUC_37860	Underground Cable	99	\$148
vUC_37861	Underground Cable	77	\$654
vUC_37862	Underground Cable	75	\$726
vUC_37863	Underground Cable	74	\$815
vUC_37864	Underground Cable	99	\$133
vUC_37865	Underground Cable	72	\$963
vUC_37866	Underground Cable	82	\$21,104
vUC_37867	Underground Cable	78	\$28,086
vUC_37868	Underground Cable	82	\$20,003
vUC_37869	Underground Cable	79	\$24,381
vUC_37870	Underground Cable	79	\$25,397
vUC_37871	Underground Cable	99	\$118
vUC_37872	Underground Cable	99	\$63
vUC_37873	Underground Cable	80	\$517
vUC_37874	Underground Cable	78	\$619
vUC_37875	Underground Cable	84	\$18,767
vUC_37876	Underground Cable	81	\$21,852
vUC_37877	Underground Cable	77	\$658
vUC_37878	Underground Cable	77	\$657
vUC_37879	Underground Cable	81	\$21,706
vUC_37880	Underground Cable	81	\$21,443
vUC_37881	Underground Cable	82	\$473
vUC_37882	Underground Cable	74	\$819

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37883	Underground Cable	78	\$603
vUC_37884	Underground Cable	76	\$714
vUC_37885	Underground Cable	72	\$953
vUC_37886	Underground Cable	84	\$412
vUC_37887	Underground Cable	74	\$807
vUC_37888	Underground Cable	81	\$494
vUC_37889	Underground Cable	82	\$479
vUC_37890	Underground Cable	78	\$613
vUC_37891	Underground Cable	75	\$750
vUC_37892	Underground Cable	80	\$23,196
vUC_37893	Underground Cable	80	\$523
vUC_37894	Underground Cable	75	\$23,913
vUC_37895	Underground Cable	77	\$20,370
vUC_37896	Underground Cable	76	\$21,637
vUC_37897	Underground Cable	77	\$16,530
vUC_37898	Underground Cable	71	\$24,815
vUC_37899	Underground Cable	71	\$23,646
vUC_37900	Underground Cable	70	\$26,517
vUC_37901	Underground Cable	76	\$694
vUC_37902	Underground Cable	75	\$766
vUC_37903	Underground Cable	99	\$11,025
vUC_37904	Underground Cable	89	\$15,242
vUC_37905	Underground Cable	99	\$9,483
vUC_37906	Underground Cable	95	\$13,197
vUC_37907	Underground Cable	99	\$33
vUC_37908	Underground Cable	89	\$330

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37909	Underground Cable	76	\$692
vUC_37910	Underground Cable	99	\$42
vUC_37911	Underground Cable	82	\$20,645
vUC_37912	Underground Cable	81	\$21,403
vUC_37913	Underground Cable	73	\$71,860
vUC_37914	Underground Cable	78	\$27,356
vUC_37915	Underground Cable	79	\$573
vUC_37916	Underground Cable	79	\$552
vUC_37917	Underground Cable	83	\$447
vUC_37918	Underground Cable	83	\$438
vUC_37919	Underground Cable	99	\$46
vUC_37920	Underground Cable	91	\$299
vUC_37921	Underground Cable	83	\$438
vUC_37922	Underground Cable	99	\$138
vUC_37923	Underground Cable	82	\$477
vUC_37924	Underground Cable	99	\$76
vUC_37925	Underground Cable	78	\$603
vUC_37926	Underground Cable	79	\$571
vUC_37927	Underground Cable	77	\$633
vUC_37928	Underground Cable	99	\$12,019
vUC_37929	Underground Cable	79	\$558
vUC_37930	Underground Cable	77	\$659
vUC_37931	Underground Cable	80	\$520
vUC_37932	Underground Cable	78	\$616
vUC_37933	Underground Cable	81	\$513
vUC_37934	Underground Cable	73	\$854

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37935	Underground Cable	75	\$767
vUC_37936	Underground Cable	99	\$95
vUC_37937	Underground Cable	84	\$420
vUC_37938	Underground Cable	74	\$798
vUC_37939	Underground Cable	76	\$683
vUC_37940	Underground Cable	75	\$753
vUC_37941	Underground Cable	75	\$750
vUC_37942	Underground Cable	80	\$517
vUC_37943	Underground Cable	77	\$660
vUC_37944	Underground Cable	80	\$522
vUC_37945	Underground Cable	77	\$30,122
vUC_37946	Underground Cable	80	\$23,881
vUC_37947	Underground Cable	80	\$23,963
vUC_37948	Underground Cable	82	\$20,191
vUC_37949	Underground Cable	77	\$670
vUC_37950	Underground Cable	74	\$826
vUC_37951	Underground Cable	97	\$12,713
vUC_37952	Underground Cable	82	\$20,949
vUC_37953	Underground Cable	80	\$535
vUC_37954	Underground Cable	74	\$804
vUC_37955	Underground Cable	80	\$23,291
vUC_37956	Underground Cable	76	\$711
vUC_37957	Underground Cable	72	\$982
vUC_37958	Underground Cable	85	\$390
vUC_37959	Underground Cable	78	\$601
vUC_37960	Underground Cable	99	\$99

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37961	Underground Cable	76	\$704
vUC_37962	Underground Cable	85	\$393
vUC_37963	Underground Cable	82	\$474
vUC_37964	Underground Cable	80	\$528
vUC_37965	Underground Cable	79	\$577
vUC_37966	Underground Cable	81	\$511
vUC_37967	Underground Cable	74	\$802
vUC_37968	Underground Cable	76	\$710
vUC_37969	Underground Cable	78	\$612
vUC_37970	Underground Cable	79	\$583
vUC_37971	Underground Cable	86	\$17,025
vUC_37972	Underground Cable	88	\$347
vUC_37973	Underground Cable	76	\$704
vUC_37974	Underground Cable	76	\$689
vUC_37975	Underground Cable	79	\$581
vUC_37976	Underground Cable	87	\$362
vUC_37977	Underground Cable	99	\$11,043
vUC_37978	Underground Cable	76	\$709
vUC_37979	Underground Cable	75	\$737
vUC_37980	Underground Cable	77	\$672
vUC_37981	Underground Cable	75	\$742
vUC_37982	Underground Cable	80	\$532
vUC_37983	Underground Cable	82	\$476
vUC_37984	Underground Cable	79	\$25,310
vUC_37985	Underground Cable	78	\$28,122
vUC_37986	Underground Cable	75	\$727

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_37987	Underground Cable	99	\$10,749
vUC_37988	Underground Cable	81	\$21,767
vUC_37989	Underground Cable	84	\$413
vUC_37990	Underground Cable	83	\$456
vUC_37991	Underground Cable	83	\$435
vUC_37992	Underground Cable	81	\$22,515
vUC_37993	Underground Cable	83	\$433
vUC_37994	Underground Cable	77	\$634
vUC_37995	Underground Cable	80	\$23,141
vUC_37996	Underground Cable	83	\$19,053
vUC_37997	Underground Cable	76	\$680
vUC_37998	Underground Cable	76	\$695
vUC_37999	Underground Cable	75	\$746
vUC_38000	Underground Cable	79	\$25,383
vUC_38001	Underground Cable	74	\$817
vUC_38002	Underground Cable	76	\$697
vUC_38003	Underground Cable	81	\$508
vUC_38004	Underground Cable	75	\$763
vUC_38005	Underground Cable	77	\$669
vUC_38006	Underground Cable	75	\$774
vUC_38007	Underground Cable	76	\$706
vUC_38008	Underground Cable	83	\$438
vUC_38009	Underground Cable	78	\$27,839
vUC_38010	Underground Cable	78	\$604
vUC_38011	Underground Cable	83	\$19,773
vUC_38012	Underground Cable	71	\$23,345

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38013	Underground Cable	77	\$20,664
vUC_38014	Underground Cable	71	\$23,519
vUC_38015	Underground Cable	80	\$17,278
vUC_38016	Underground Cable	85	\$13,025
vUC_38017	Underground Cable	75	\$18,603
vUC_38018	Underground Cable	77	\$20,017
vUC_38019	Underground Cable	75	\$752
vUC_38020	Underground Cable	74	\$24,670
vUC_38021	Underground Cable	80	\$24,539
vUC_38022	Underground Cable	73	\$27,587
vUC_38023	Underground Cable	84	\$410
vUC_38024	Underground Cable	79	\$25,061
vUC_38025	Underground Cable	83	\$19,737
vUC_38026	Underground Cable	84	\$18,443
vUC_38027	Underground Cable	89	\$323
vUC_38028	Underground Cable	99	\$8,789
vUC_38029	Underground Cable	81	\$22,316
vUC_38030	Underground Cable	75	\$739
vUC_38031	Underground Cable	83	\$439
vUC_38032	Underground Cable	81	\$495
vUC_38033	Underground Cable	78	\$27,179
vUC_38034	Underground Cable	82	\$20,305
vUC_38035	Underground Cable	85	\$407
vUC_38036	Underground Cable	89	\$324
vUC_38037	Underground Cable	77	\$32,389
vUC_38038	Underground Cable	99	\$10,707

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38039	Underground Cable	99	\$10,663
vUC_38040	Underground Cable	80	\$518
vUC_38041	Underground Cable	84	\$426
vUC_38042	Underground Cable	79	\$568
vUC_38043	Underground Cable	87	\$358
vUC_38044	Underground Cable	81	\$497
vUC_38045	Underground Cable	76	\$700
vUC_38046	Underground Cable	99	\$44
vUC_38047	Underground Cable	87	\$366
vUC_38048	Underground Cable	82	\$479
vUC_38049	Underground Cable	81	\$507
vUC_38050	Underground Cable	75	\$765
vUC_38051	Underground Cable	78	\$616
vUC_38052	Underground Cable	77	\$664
vUC_38053	Underground Cable	75	\$749
vUC_38054	Underground Cable	79	\$25,192
vUC_38055	Underground Cable	81	\$507
vUC_38056	Underground Cable	83	\$441
vUC_38057	Underground Cable	69	\$29,630
vUC_38058	Underground Cable	77	\$627
vUC_38059	Underground Cable	75	\$754
vUC_38060	Underground Cable	99	\$83
vUC_38061	Underground Cable	73	\$21,421
vUC_38062	Underground Cable	76	\$682
vUC_38063	Underground Cable	74	\$828
vUC_38064	Underground Cable	99	\$30

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38065	Underground Cable	76	\$35,304
vUC_38066	Underground Cable	74	\$19,883
vUC_38067	Underground Cable	99	\$97
vUC_38068	Underground Cable	74	\$847
vUC_38069	Underground Cable	99	\$80
vUC_38070	Underground Cable	95	\$247
vUC_38071	Underground Cable	78	\$586
vUC_38072	Underground Cable	99	\$63
vUC_38073	Underground Cable	79	\$25,614
vUC_38074	Underground Cable	79	\$24,739
vUC_38075	Underground Cable	79	\$25,419
vUC_38076	Underground Cable	79	\$25,224
vUC_38077	Underground Cable	87	\$353
vUC_38078	Underground Cable	86	\$379
vUC_38079	Underground Cable	76	\$685
vUC_38080	Underground Cable	82	\$20,936
vUC_38081	Underground Cable	79	\$580
vUC_38082	Underground Cable	83	\$441
vUC_38083	Underground Cable	84	\$415
vUC_38084	Underground Cable	79	\$560
vUC_38085	Underground Cable	78	\$603
vUC_38086	Underground Cable	79	\$24,979
vUC_38087	Underground Cable	74	\$823
vUC_38088	Underground Cable	79	\$554
vUC_38089	Underground Cable	75	\$736
vUC_38090	Underground Cable	78	\$610

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38091	Underground Cable	79	\$569
vUC_38092	Underground Cable	79	\$25,714
vUC_38093	Underground Cable	88	\$15,774
vUC_38094	Underground Cable	79	\$24,979
vUC_38095	Underground Cable	79	\$548
vUC_38096	Underground Cable	80	\$545
vUC_38097	Underground Cable	99	\$10,846
vUC_38098	Underground Cable	85	\$395
vUC_38099	Underground Cable	77	\$669
vUC_38100	Underground Cable	95	\$248
vUC_38101	Underground Cable	76	\$697
vUC_38102	Underground Cable	76	\$699
vUC_38103	Underground Cable	78	\$592
vUC_38104	Underground Cable	78	\$606
vUC_38105	Underground Cable	76	\$36,474
vUC_38106	Underground Cable	76	\$715
vUC_38107	Underground Cable	82	\$472
vUC_38108	Underground Cable	82	\$21,018
vUC_38109	Underground Cable	77	\$31,464
vUC_38110	Underground Cable	80	\$24,498
vUC_38111	Underground Cable	82	\$20,936
vUC_38112	Underground Cable	79	\$568
vUC_38113	Underground Cable	77	\$653
vUC_38114	Underground Cable	80	\$23,164
vUC_38115	Underground Cable	80	\$23,695
vUC_38116	Underground Cable	87	\$353

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38117	Underground Cable	99	\$9,253
vUC_38118	Underground Cable	78	\$586
vUC_38119	Underground Cable	80	\$537
vUC_38120	Underground Cable	86	\$380
vUC_38121	Underground Cable	78	\$611
vUC_38122	Underground Cable	84	\$419
vUC_38123	Underground Cable	77	\$639
vUC_38124	Underground Cable	76	\$695
vUC_38125	Underground Cable	77	\$645
vUC_38126	Underground Cable	77	\$640
vUC_38127	Underground Cable	99	\$9,914
vUC_38128	Underground Cable	91	\$14,632
vUC_38129	Underground Cable	89	\$324
vUC_38130	Underground Cable	72	\$999
vUC_38131	Underground Cable	99	\$80
vUC_38132	Underground Cable	77	\$670
vUC_38133	Underground Cable	76	\$712
vUC_38134	Underground Cable	76	\$695
vUC_38135	Underground Cable	75	\$781
vUC_38136	Underground Cable	76	\$682
vUC_38137	Underground Cable	85	\$17,649
vUC_38138	Underground Cable	89	\$316
vUC_38139	Underground Cable	81	\$501
vUC_38140	Underground Cable	74	\$833
vUC_38141	Underground Cable	81	\$22,570
vUC_38142	Underground Cable	79	\$583

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38143	Underground Cable	85	\$398
vUC_38144	Underground Cable	76	\$717
vUC_38145	Underground Cable	81	\$495
vUC_38146	Underground Cable	75	\$776
vUC_38147	Underground Cable	76	\$692
vUC_38148	Underground Cable	81	\$21,449
vUC_38149	Underground Cable	82	\$479
vUC_38150	Underground Cable	75	\$24,143
vUC_38151	Underground Cable	76	\$21,486
vUC_38152	Underground Cable	71	\$23,968
vUC_38153	Underground Cable	71	\$24,356
vUC_38154	Underground Cable	73	\$27,275
vUC_38155	Underground Cable	75	\$22,789
vUC_38156	Underground Cable	69	\$28,756
vUC_38157	Underground Cable	75	\$18,603
vUC_38158	Underground Cable	76	\$21,082
vUC_38159	Underground Cable	72	\$22,838
vUC_38160	Underground Cable	75	\$18,270
vUC_38161	Underground Cable	77	\$647
vUC_38162	Underground Cable	78	\$615
vUC_38163	Underground Cable	91	\$288
vUC_38164	Underground Cable	80	\$22,878
vUC_38165	Underground Cable	99	\$112
vUC_38166	Underground Cable	85	\$17,393
vUC_38167	Underground Cable	82	\$460
vUC_38168	Underground Cable	89	\$15,260

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38169	Underground Cable	85	\$18,075
vUC_38170	Underground Cable	78	\$602
vUC_38171	Underground Cable	82	\$20,813
vUC_38172	Underground Cable	85	\$18,106
vUC_38173	Underground Cable	99	\$10,000
vUC_38174	Underground Cable	99	\$84
vUC_38175	Underground Cable	83	\$450
vUC_38176	Underground Cable	74	\$836
vUC_38177	Underground Cable	72	\$941
vUC_38178	Underground Cable	83	\$452
vUC_38179	Underground Cable	85	\$401
vUC_38180	Underground Cable	74	\$819
vUC_38181	Underground Cable	75	\$727
vUC_38182	Underground Cable	99	\$76
vUC_38183	Underground Cable	99	\$102
vUC_38184	Underground Cable	83	\$446
vUC_38185	Underground Cable	88	\$338
vUC_38186	Underground Cable	76	\$683
vUC_38187	Underground Cable	79	\$579
vUC_38188	Underground Cable	79	\$574
vUC_38189	Underground Cable	77	\$652
vUC_38190	Underground Cable	80	\$544
vUC_38191	Underground Cable	81	\$500
vUC_38192	Underground Cable	87	\$357
vUC_38193	Underground Cable	93	\$13,880
vUC_38194	Underground Cable	82	\$21,240

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38195	Underground Cable	74	\$24,702
vUC_38196	Underground Cable	83	\$439
vUC_38197	Underground Cable	77	\$636
vUC_38198	Underground Cable	78	\$621
vUC_38199	Underground Cable	74	\$19,837
vUC_38200	Underground Cable	80	\$23,291
vUC_38201	Underground Cable	80	\$547
vUC_38202	Underground Cable	80	\$519
vUC_38203	Underground Cable	81	\$497
vUC_38204	Underground Cable	84	\$417
vUC_38205	Underground Cable	77	\$641
vUC_38206	Underground Cable	73	\$876
vUC_38207	Underground Cable	80	\$537
vUC_38208	Underground Cable	80	\$24,539
vUC_38209	Underground Cable	80	\$24,421
vUC_38210	Underground Cable	78	\$28,254
vUC_38211	Underground Cable	80	\$23,582
vUC_38212	Underground Cable	79	\$25,705
vUC_38213	Underground Cable	80	\$24,013
vUC_38214	Underground Cable	99	\$26
vUC_38215	Underground Cable	75	\$775
vUC_38216	Underground Cable	82	\$20,455
vUC_38217	Underground Cable	99	\$11,442
vUC_38218	Underground Cable	99	\$9,819
vUC_38219	Underground Cable	99	\$116
vUC_38220	Underground Cable	80	\$538

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38221	Underground Cable	88	\$336
vUC_38222	Underground Cable	93	\$267
vUC_38223	Underground Cable	88	\$334
vUC_38224	Underground Cable	76	\$714
vUC_38225	Underground Cable	83	\$450
vUC_38226	Underground Cable	82	\$473
vUC_38227	Underground Cable	75	\$731
vUC_38228	Underground Cable	78	\$599
vUC_38229	Underground Cable	79	\$581
vUC_38230	Underground Cable	79	\$562
vUC_38231	Underground Cable	80	\$523
vUC_38232	Underground Cable	84	\$414
vUC_38233	Underground Cable	85	\$405
vUC_38234	Underground Cable	77	\$650
vUC_38235	Underground Cable	77	\$629
vUC_38236	Underground Cable	93	\$265
vUC_38237	Underground Cable	77	\$638
vUC_38238	Underground Cable	79	\$575
vUC_38239	Underground Cable	81	\$509
vUC_38240	Underground Cable	99	\$10,985
vUC_38241	Underground Cable	83	\$19,283
vUC_38242	Underground Cable	80	\$23,818
vUC_38243	Underground Cable	77	\$671
vUC_38244	Underground Cable	77	\$668
vUC_38245	Underground Cable	75	\$781
vUC_38246	Underground Cable	75	\$783

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38247	Underground Cable	72	\$976
vUC_38248	Underground Cable	79	\$563
vUC_38249	Underground Cable	84	\$410
vUC_38250	Underground Cable	84	\$418
vUC_38251	Underground Cable	78	\$27,084
vUC_38252	Underground Cable	75	\$739
vUC_38253	Underground Cable	78	\$27,766
vUC_38254	Underground Cable	87	\$352
vUC_38255	Underground Cable	90	\$302
vUC_38256	Underground Cable	78	\$28,234
vUC_38257	Underground Cable	99	\$71
vUC_38258	Underground Cable	78	\$26,723
vUC_38259	Underground Cable	82	\$20,630
vUC_38260	Underground Cable	76	\$696
vUC_38261	Underground Cable	75	\$743
vUC_38262	Underground Cable	88	\$347
vUC_38263	Underground Cable	78	\$611
vUC_38264	Underground Cable	75	\$781
vUC_38265	Underground Cable	79	\$571
vUC_38266	Underground Cable	77	\$641
vUC_38267	Underground Cable	81	\$502
vUC_38268	Underground Cable	82	\$475
vUC_38269	Underground Cable	87	\$366
vUC_38270	Underground Cable	80	\$22,751
vUC_38271	Underground Cable	78	\$618
vUC_38272	Underground Cable	77	\$20,678

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38273	Underground Cable	76	\$22,408
vUC_38274	Underground Cable	71	\$23,720
vUC_38275	Underground Cable	75	\$18,371
vUC_38276	Underground Cable	76	\$17,257
vUC_38277	Underground Cable	73	\$20,161
vUC_38278	Underground Cable	89	\$15,319
vUC_38279	Underground Cable	72	\$21,459
vUC_38280	Underground Cable	77	\$16,989
vUC_38281	Underground Cable	87	\$13,599
vUC_38282	Underground Cable	77	\$638
vUC_38283	Underground Cable	78	\$27,008
vUC_38284	Underground Cable	99	\$9,465
vUC_38285	Underground Cable	99	\$9,330
vUC_38286	Underground Cable	99	\$147
vUC_38287	Underground Cable	99	\$170
vUC_38288	Underground Cable	81	\$504
vUC_38289	Underground Cable	79	\$24,689
vUC_38290	Underground Cable	80	\$22,956
vUC_38291	Underground Cable	81	\$22,288
vUC_38292	Underground Cable	78	\$27,138
vUC_38293	Underground Cable	77	\$656
vUC_38294	Underground Cable	78	\$614
vUC_38295	Underground Cable	85	\$388
vUC_38296	Underground Cable	83	\$444
vUC_38297	Underground Cable	87	\$366
vUC_38298	Underground Cable	76	\$685

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38299	Underground Cable	79	\$567
vUC_38300	Underground Cable	89	\$323
vUC_38301	Underground Cable	81	\$495
vUC_38302	Underground Cable	77	\$637
vUC_38303	Underground Cable	77	\$640
vUC_38304	Underground Cable	79	\$26,667
vUC_38305	Underground Cable	99	\$122
vUC_38306	Underground Cable	69	\$29,307
vUC_38307	Underground Cable	79	\$570
vUC_38308	Underground Cable	80	\$529
vUC_38309	Underground Cable	93	\$272
vUC_38310	Underground Cable	80	\$525
vUC_38311	Underground Cable	91	\$288
vUC_38312	Underground Cable	99	\$90
vUC_38313	Underground Cable	99	\$80
vUC_38314	Underground Cable	77	\$668
vUC_38315	Underground Cable	82	\$461
vUC_38316	Underground Cable	81	\$497
vUC_38317	Underground Cable	75	\$726
vUC_38318	Underground Cable	82	\$20,500
vUC_38319	Underground Cable	95	\$250
vUC_38320	Underground Cable	80	\$519
vUC_38321	Underground Cable	75	\$739
vUC_38322	Underground Cable	76	\$702
vUC_38323	Underground Cable	74	\$834
vUC_38324	Underground Cable	80	\$517

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38325	Underground Cable	80	\$523
vUC_38326	Underground Cable	92	\$14,122
vUC_38327	Underground Cable	93	\$268
vUC_38328	Underground Cable	91	\$299
vUC_38329	Underground Cable	99	\$99
vUC_38330	Underground Cable	78	\$614
vUC_38331	Underground Cable	74	\$849
vUC_38332	Underground Cable	82	\$21,131
vUC_38333	Underground Cable	81	\$487
vUC_38334	Underground Cable	77	\$657
vUC_38335	Underground Cable	79	\$583
vUC_38336	Underground Cable	76	\$691
vUC_38337	Underground Cable	83	\$438
vUC_38338	Underground Cable	76	\$681
vUC_38339	Underground Cable	75	\$782
vUC_38340	Underground Cable	74	\$798
vUC_38341	Underground Cable	77	\$656
vUC_38342	Underground Cable	75	\$762
vUC_38343	Underground Cable	82	\$459
vUC_38344	Underground Cable	81	\$21,803
vUC_38345	Underground Cable	83	\$442
vUC_38346	Underground Cable	83	\$448
vUC_38347	Underground Cable	77	\$631
vUC_38348	Underground Cable	79	\$584
vUC_38349	Underground Cable	77	\$31,464
vUC_38350	Underground Cable	81	\$22,098

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38351	Underground Cable	83	\$453
vUC_38352	Underground Cable	92	\$282
vUC_38353	Underground Cable	84	\$430
vUC_38354	Underground Cable	99	\$11,102
vUC_38355	Underground Cable	83	\$19,919
vUC_38356	Underground Cable	80	\$23,527
vUC_38357	Underground Cable	77	\$672
vUC_38358	Underground Cable	80	\$24,480
vUC_38359	Underground Cable	79	\$581
vUC_38360	Underground Cable	86	\$17,103
vUC_38361	Underground Cable	84	\$409
vUC_38362	Underground Cable	76	\$708
vUC_38363	Underground Cable	99	\$197
vUC_38364	Underground Cable	99	\$72
vUC_38365	Underground Cable	99	\$175
vUC_38366	Underground Cable	80	\$23,586
vUC_38367	Underground Cable	77	\$664
vUC_38368	Underground Cable	74	\$830
vUC_38369	Underground Cable	83	\$441
vUC_38370	Underground Cable	75	\$784
vUC_38371	Underground Cable	78	\$596
vUC_38372	Underground Cable	79	\$567
vUC_38373	Underground Cable	75	\$740
vUC_38374	Underground Cable	77	\$30,344
vUC_38375	Underground Cable	80	\$545
vUC_38376	Underground Cable	78	\$608

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38377	Underground Cable	79	\$565
vUC_38378	Underground Cable	85	\$405
vUC_38379	Underground Cable	75	\$727
vUC_38380	Underground Cable	72	\$986
vUC_38381	Underground Cable	77	\$630
vUC_38382	Underground Cable	77	\$653
vUC_38383	Underground Cable	79	\$24,753
vUC_38384	Underground Cable	83	\$432
vUC_38385	Underground Cable	96	\$235
vUC_38386	Underground Cable	76	\$710
vUC_38387	Underground Cable	77	\$670
vUC_38388	Underground Cable	79	\$570
vUC_38389	Underground Cable	75	\$770
vUC_38390	Underground Cable	78	\$27,229
vUC_38391	Underground Cable	75	\$765
vUC_38392	Underground Cable	79	\$24,634
vUC_38393	Underground Cable	85	\$13,058
vUC_38394	Underground Cable	75	\$18,041
vUC_38395	Underground Cable	78	\$16,270
vUC_38396	Underground Cable	75	\$23,170
vUC_38397	Underground Cable	73	\$20,764
vUC_38398	Underground Cable	79	\$576
vUC_38399	Underground Cable	80	\$14,913
vUC_38400	Underground Cable	70	\$26,406
vUC_38401	Underground Cable	77	\$20,499
vUC_38402	Underground Cable	76	\$722

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38403	Underground Cable	75	\$759
vUC_38404	Underground Cable	75	\$22,482
vUC_38405	Underground Cable	87	\$16,365
vUC_38406	Underground Cable	83	\$433
vUC_38407	Underground Cable	81	\$491
vUC_38408	Underground Cable	78	\$610
vUC_38409	Underground Cable	87	\$355
vUC_38410	Underground Cable	81	\$21,694
vUC_38411	Underground Cable	79	\$25,587
vUC_38412	Underground Cable	99	\$11,979
vUC_38413	Underground Cable	77	\$663
vUC_38414	Underground Cable	85	\$17,929
vUC_38415	Underground Cable	77	\$30,675
vUC_38416	Underground Cable	83	\$19,269
vUC_38417	Underground Cable	79	\$25,605
vUC_38418	Underground Cable	78	\$28,308
vUC_38419	Underground Cable	99	\$10,466
vUC_38420	Underground Cable	99	\$129
vUC_38421	Underground Cable	79	\$566
vUC_38422	Underground Cable	77	\$646
vUC_38423	Underground Cable	75	\$741
vUC_38424	Underground Cable	99	\$106
vUC_38425	Underground Cable	93	\$271
vUC_38426	Underground Cable	85	\$408
vUC_38427	Underground Cable	75	\$726
vUC_38428	Underground Cable	77	\$635

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUC_38429	Underground Cable	76	\$714
vUC_38430	Underground Cable	78	\$616
vUC_38431	Underground Cable	76	\$691
vUC_38432	Underground Cable	79	\$553
vUC_38433	Underground Cable	81	\$507
vUC_38434	Underground Cable	89	\$15,301
vUS_4261	Underground Switch	76	\$5,040
vUS_4262	Underground Switch	38	\$16,552
vUS_4263	Underground Switch	83	\$4,340
vUS_4264	Underground Switch	22	\$38,953
vUS_4265	Underground Switch	62	\$7,145
vUS_4266	Underground Switch	23	\$37,715
vUS_4267	Underground Switch	61	\$7,317
vUS_4268	Underground Switch	99	\$1,409
vUS_4269	Underground Switch	62	\$7,145
vUS_4270	Underground Switch	54	\$8,834
vUS_4271	Underground Switch	41	\$14,587
vUS_4272	Underground Switch	23	\$37,715
vUS_4273	Underground Switch	54	\$8,834
vUS_4274	Underground Switch	22	\$38,953
vUS_4275	Underground Switch	26	\$30,428
vUS_4276	Underground Switch	92	\$3,661
vUS_4277	Underground Switch	51	\$9,759
vUS_4278	Underground Switch	99	\$2,956
vUS_4279	Underground Switch	61	\$7,317
vUS_4280	Underground Switch	17	\$59,100

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUS_4281	Underground Switch	56	\$8,346
vUS_4282	Underground Switch	21	\$41,906
vUS_4283	Underground Switch	71	\$5,610
vUS_4284	Underground Switch	28	\$27,784
vUS_4285	Underground Switch	26	\$30,428
vUS_4286	Underground Switch	27	\$29,709
vUS_4287	Underground Switch	25	\$32,931
vUS_4288	Underground Switch	26	\$30,428
vUS_4289	Underground Switch	71	\$5,610
vUS_4290	Underground Switch	80	\$4,655
vUS_4291	Underground Switch	80	\$4,629
vUS_4292	Underground Switch	46	\$11,844
vUS_4293	Underground Switch	58	\$7,842
vUS_4294	Underground Switch	26	\$30,677
vUS_4295	Underground Switch	25	\$33,094
vUS_4296	Underground Switch	61	\$7,317
vUS_4297	Underground Switch	76	\$4,989
vUS_4298	Underground Switch	47	\$11,450
vUS_4299	Underground Switch	28	\$27,784
vUS_4300	Underground Switch	83	\$4,340
vUS_4301	Underground Switch	39	\$15,644
vUS_4302	Underground Switch	36	\$18,101
vUS_4303	Underground Switch	83	\$4,340
vUS_4304	Underground Switch	36	\$18,051
vUS_4305	Underground Switch	56	\$8,346
vUS_4306	Underground Switch	54	\$9,061

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUS_4307	Underground Switch	99	\$2,588
vUS_4308	Underground Switch	26	\$30,769
vUS_4309	Underground Switch	61	\$7,317
vUS_4310	Underground Switch	26	\$30,769
vUS_4311	Underground Switch	61	\$7,317
vUS_4312	Underground Switch	71	\$5,610
vUS_4313	Underground Switch	74	\$5,290
vUS_4314	Underground Switch	99	\$2,956
vUS_4315	Underground Switch	64	\$6,772
vUS_4316	Underground Switch	67	\$6,180
vUS_4317	Underground Switch	24	\$35,028
vUS_4318	Underground Switch	60	\$7,551
vUS_4319	Underground Switch	67	\$6,203
vUS_4320	Underground Switch	99	\$2,956
vUS_4321	Underground Switch	71	\$5,610
vUS_4322	Underground Switch	31	\$23,572
vUS_4323	Underground Switch	44	\$12,547
vUS_4324	Underground Switch	44	\$12,547
vUS_4325	Underground Switch	64	\$6,772
vUS_4326	Underground Switch	93	\$3,633
vUS_4327	Underground Switch	25	\$31,960
vUS_4328	Underground Switch	92	\$3,661
vUS_4329	Underground Switch	58	\$7,842
vUS_4330	Underground Switch	99	\$2,956
vUS_4331	Underground Switch	60	\$7,572
vUS_4332	Underground Switch	99	\$2,956

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUS_4333	Underground Switch	44	\$12,547
vUS_4334	Underground Switch	92	\$3,661
vUS_4335	Underground Switch	80	\$4,629
vUS_4336	Underground Switch	64	\$6,772
vUS_4337	Underground Switch	52	\$9,524
vUS_4338	Underground Switch	92	\$3,661
vUS_4339	Underground Switch	69	\$5,898
vUS_4340	Underground Switch	22	\$39,806
vUS_4341	Underground Switch	24	\$35,573
vUS_4342	Underground Switch	56	\$8,346
vUS_4343	Underground Switch	92	\$3,661
vUS_4344	Underground Switch	92	\$3,661
vUS_4345	Underground Switch	53	\$9,304
vUS_4346	Underground Switch	64	\$6,772
vUS_4347	Underground Switch	67	\$6,203
vUS_4348	Underground Switch	92	\$3,661
vUS_4349	Underground Switch	24	\$35,573
vUS_4350	Underground Switch	99	\$2,956
vUS_4351	Underground Switch	99	\$2,956
vUS_4352	Underground Switch	99	\$2,956
vUS_4353	Underground Switch	74	\$5,290
vUS_4354	Underground Switch	54	\$9,042
vUS_4355	Underground Switch	67	\$6,203
vUS_4356	Underground Switch	87	\$3,991
vUS_4357	Underground Switch	57	\$8,086
vUS_4358	Underground Switch	26	\$30,769

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUS_4359	Underground Switch	99	\$2,956
vUS_4360	Underground Switch	99	\$2,956
vUS_4361	Underground Switch	26	\$30,769
vUS_4362	Underground Switch	56	\$8,346
vUS_4363	Underground Switch	99	\$1,538
vUS_4364	Underground Switch	38	\$16,253
vUS_4365	Underground Switch	38	\$16,253
vUS_4366	Underground Switch	22	\$39,514
vUS_4367	Underground Switch	67	\$6,203
vUS_4368	Underground Switch	64	\$6,772
vUS_4369	Underground Switch	87	\$3,991
vUS_4370	Underground Switch	38	\$16,253
vUS_4371	Underground Switch	51	\$9,759
vUS_4372	Underground Switch	54	\$8,834
vUS_4373	Underground Switch	22	\$39,636
vUS_4374	Underground Switch	28	\$27,256
vUS_4375	Underground Switch	43	\$13,315
vUS_4376	Underground Switch	83	\$4,340
vUS_4377	Underground Switch	87	\$3,991
vUS_4378	Underground Switch	32	\$21,363
vUS_4379	Underground Switch	62	\$7,036
vUS_4380	Underground Switch	92	\$3,661
vUT_4013	Underground Transformer	10	\$24,061
vUT_4014	Underground Transformer	9	\$31,070
vUT_4015	Underground Transformer	22	\$6,519
vUT_4016	Underground Transformer	9	\$29,445

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUT_4017	Underground Transformer	9	\$29,554
vUT_4018	Underground Transformer	11	\$25,621
vUT_4019	Underground Transformer	11	\$25,621
vUT_4020	Underground Transformer	17	\$13,582
vUT_4021	Underground Transformer	9	\$29,445
vUT_4022	Underground Transformer	9	\$31,551
vUT_4023	Underground Transformer	14	\$34,866
vUT_4024	Underground Transformer	7	\$23,114
vUT_4025	Underground Transformer	9	\$29,445
vUT_4026	Underground Transformer	17	\$13,582
vUT_4027	Underground Transformer	17	\$14,032
vUT_4028	Underground Transformer	62	\$2,138
vUT_4029	Underground Transformer	99	\$2,302
vUT_4030	Underground Transformer	17	\$13,582
vUT_4031	Underground Transformer	7	\$23,189
vUT_4032	Underground Transformer	17	\$13,582
vUT_4033	Underground Transformer	9	\$29,445
vUT_4034	Underground Transformer	9	\$31,070
vUT_4035	Underground Transformer	62	\$2,138
vUT_4036	Underground Transformer	9	\$29,445
vUT_4037	Underground Transformer	10	\$34,314
vUT_4038	Underground Transformer	17	\$13,582
vUT_4039	Underground Transformer	27	\$8,257
vUT_4040	Underground Transformer	26	\$7,862
vUT_4041	Underground Transformer	34	\$10,275
vUT_4042	Underground Transformer	10	\$34,314

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUT_4043	Underground Transformer	62	\$2,138
vUT_4044	Underground Transformer	9	\$29,445
vUT_4045	Underground Transformer	15	\$59,115
vUT_4046	Underground Transformer	32	\$5,694
vUT_4047	Underground Transformer	22	\$9,939
vUT_4048	Underground Transformer	9	\$17,592
vUT_4049	Underground Transformer	25	\$5,498
vUT_4050	Underground Transformer	20	\$7,266
vUT_4051	Underground Transformer	21	\$6,954
vUT_4052	Underground Transformer	9	\$17,592
vUT_4053	Underground Transformer	21	\$10,280
vUT_4054	Underground Transformer	18	\$8,127
vUT_4055	Underground Transformer	34	\$3,470
vUT_4056	Underground Transformer	25	\$8,424
vUT_4057	Underground Transformer	29	\$6,552
vUT_4058	Underground Transformer	24	\$8,827
vUT_4059	Underground Transformer	28	\$4,590
vUT_4060	Underground Transformer	25	\$7,996
vUT_4061	Underground Transformer	22	\$9,939
vUT_4062	Underground Transformer	22	\$9,939
vUT_4063	Underground Transformer	11	\$24,003
vUT_4064	Underground Transformer	21	\$6,622
vUT_4065	Underground Transformer	18	\$8,391
vUT_4066	Underground Transformer	24	\$8,827
vUT_4067	Underground Transformer	28	\$4,590
vUT_4068	Underground Transformer	27	\$4,804

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUT_4069	Underground Transformer	21	\$10,280
vUT_4070	Underground Transformer	31	\$6,000
vUT_4071	Underground Transformer	22	\$9,939
vUT_4072	Underground Transformer	26	\$5,063
vUT_4073	Underground Transformer	15	\$32,093
vUT_4074	Underground Transformer	27	\$4,804
vUT_4075	Underground Transformer	27	\$4,804
vUT_4076	Underground Transformer	48	\$1,922
vUT_4077	Underground Transformer	21	\$6,622
vUT_4078	Underground Transformer	15	\$16,137
vUT_4079	Underground Transformer	25	\$7,996
vUT_4080	Underground Transformer	10	\$24,219
vUT_4081	Underground Transformer	12	\$12,911
vUT_4082	Underground Transformer	23	\$9,394
vUT_4083	Underground Transformer	28	\$4,590
vUT_4084	Underground Transformer	36	\$3,124
vUT_4085	Underground Transformer	25	\$7,996
vUT_4086	Underground Transformer	14	\$10,994
vUT_4087	Underground Transformer	14	\$10,994
vUT_4088	Underground Transformer	25	\$7,996
vUT_4089	Underground Transformer	12	\$12,911
vUT_4090	Underground Transformer	21	\$6,622
vUT_4091	Underground Transformer	39	\$2,775
vUT_4092	Underground Transformer	25	\$7,996
vUT_4093	Underground Transformer	28	\$4,590
vUT_4094	Underground Transformer	25	\$7,996

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUT_4095	Underground Transformer	28	\$4,590
vUT_4096	Underground Transformer	10	\$24,219
vUT_4097	Underground Transformer	27	\$7,546
vUT_4098	Underground Transformer	20	\$7,266
vUT_4099	Underground Transformer	20	\$7,266
vUT_4100	Underground Transformer	29	\$6,552
vUT_4101	Underground Transformer	20	\$7,266
vUT_4102	Underground Transformer	20	\$7,266
vUT_4103	Underground Transformer	27	\$7,546
vUT_4104	Underground Transformer	25	\$5,276
vUT_4105	Underground Transformer	23	\$9,394
vUT_4106	Underground Transformer	24	\$8,827
vUT_4107	Underground Transformer	15	\$16,137
vUT_4108	Underground Transformer	29	\$6,552
vUT_4109	Underground Transformer	19	\$7,704
vUT_4110	Underground Transformer	28	\$4,590
vUT_4111	Underground Transformer	19	\$7,704
vUT_4112	Underground Transformer	25	\$5,276
vUT_4113	Underground Transformer	25	\$5,276
vUT_4114	Underground Transformer	23	\$5,882
vUT_4115	Underground Transformer	27	\$7,546
vUT_4116	Underground Transformer	19	\$7,990
vUT_4117	Underground Transformer	29	\$6,552
vUT_4118	Underground Transformer	21	\$6,954
vUT_4119	Underground Transformer	27	\$7,546
vUT_4120	Underground Transformer	27	\$7,546

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUT_4121	Underground Transformer	27	\$4,804
vUT_4122	Underground Transformer	36	\$4,735
vUT_4123	Underground Transformer	25	\$8,424
vUT_4124	Underground Transformer	12	\$20,016
vUT_4125	Underground Transformer	21	\$6,768
vUT_4126	Underground Transformer	10	\$15,881
vUT_4127	Underground Transformer	21	\$6,781
vUT_4128	Underground Transformer	34	\$3,470
vUT_4129	Underground Transformer	16	\$9,458
vUT_4130	Underground Transformer	30	\$4,043
vUT_4131	Underground Transformer	28	\$7,045
vUT_4132	Underground Transformer	21	\$6,781
vUT_4133	Underground Transformer	17	\$47,571
vUT_4134	Underground Transformer	9	\$19,707
vUT_4135	Underground Transformer	10	\$24,958
vUT_4136	Underground Transformer	21	\$6,781
vUT_4137	Underground Transformer	30	\$4,043
vUT_4138	Underground Transformer	21	\$6,781
vUT_4139	Underground Transformer	23	\$5,897
vUT_4140	Underground Transformer	12	\$20,016
vUT_4141	Underground Transformer	9	\$19,707
vUT_4142	Underground Transformer	25	\$8,184
vUT_4143	Underground Transformer	27	\$7,546
vUT_4144	Underground Transformer	23	\$5,882
vUT_4145	Underground Transformer	34	\$3,470
vUT_4146	Underground Transformer	25	\$8,202

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUT_4147	Underground Transformer	27	\$7,546
vUT_4148	Underground Transformer	23	\$5,897
vUT_4149	Underground Transformer	9	\$19,707
vUT_4150	Underground Transformer	10	\$15,881
vUT_4151	Underground Transformer	10	\$15,881
vUT_4152	Underground Transformer	27	\$4,804
vUT_4153	Underground Transformer	25	\$8,424
vUT_4154	Underground Transformer	27	\$7,546
vUT_4155	Underground Transformer	27	\$4,804
vUT_4156	Underground Transformer	23	\$5,897
vUT_4157	Underground Transformer	22	\$9,755
vUT_4158	Underground Transformer	25	\$5,498
vUT_4159	Underground Transformer	8	\$21,454
vUT_4160	Underground Transformer	8	\$21,454
vUT_4161	Underground Transformer	19	\$7,853
vUT_4162	Underground Transformer	24	\$8,827
vUT_4163	Underground Transformer	36	\$4,735
vUT_4164	Underground Transformer	16	\$14,359
vUT_4165	Underground Transformer	8	\$21,454
vUT_4166	Underground Transformer	9	\$27,318
vUT_4167	Underground Transformer	36	\$4,735
vUT_4168	Underground Transformer	36	\$4,735
vUT_4169	Underground Transformer	8	\$21,454
vUT_4170	Underground Transformer	36	\$4,735
vUT_4171	Underground Transformer	34	\$3,470
vUT_4172	Underground Transformer	28	\$7,065

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUT_4173	Underground Transformer	19	\$7,693
vUT_4174	Underground Transformer	28	\$7,065
vUT_4175	Underground Transformer	19	\$7,693
vUT_4176	Underground Transformer	34	\$3,470
vUT_4177	Underground Transformer	19	\$7,693
vUT_4178	Underground Transformer	23	\$9,379
vUT_4179	Underground Transformer	25	\$5,276
vUT_4180	Underground Transformer	23	\$9,379
vUT_4181	Underground Transformer	25	\$5,276
vUT_4182	Underground Transformer	25	\$5,276
vUT_4183	Underground Transformer	20	\$7,105
vUT_4184	Underground Transformer	9	\$19,078
vUT_4185	Underground Transformer	29	\$4,324
vUT_4186	Underground Transformer	29	\$4,324
vUT_4187	Underground Transformer	34	\$3,470
vUT_4188	Underground Transformer	9	\$19,078
vUT_4189	Underground Transformer	24	\$8,618
vUT_4190	Underground Transformer	9	\$19,078
vUT_4191	Underground Transformer	9	\$19,078
vUT_4192	Underground Transformer	20	\$7,105
vUT_4193	Underground Transformer	9	\$19,078
vUT_4194	Underground Transformer	34	\$3,470
vUT_4195	Underground Transformer	24	\$8,827
vUT_4196	Underground Transformer	23	\$9,212
vUT_4197	Underground Transformer	16	\$14,800
vUT_4198	Underground Transformer	23	\$9,212

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUT_4199	Underground Transformer	19	\$11,824
vUT_4200	Underground Transformer	16	\$14,800
vUT_4201	Underground Transformer	19	\$11,824
vUT_4202	Underground Transformer	29	\$6,552
vUT_4203	Underground Transformer	10	\$24,860
vUT_4204	Underground Transformer	19	\$11,824
vUT_4205	Underground Transformer	29	\$4,324
vUT_4206	Underground Transformer	29	\$4,324
vUT_4207	Underground Transformer	23	\$9,212
vUT_4208	Underground Transformer	24	\$8,827
vUT_4209	Underground Transformer	25	\$5,498
vUT_4210	Underground Transformer	13	\$11,878
vUT_4211	Underground Transformer	24	\$8,827
vUT_4212	Underground Transformer	16	\$14,800
vUT_4213	Underground Transformer	13	\$11,878
vUT_4214	Underground Transformer	16	\$14,800
vUT_4215	Underground Transformer	10	\$24,860
vUT_4216	Underground Transformer	19	\$11,824
vUT_4217	Underground Transformer	10	\$24,860
vUT_4218	Underground Transformer	16	\$14,800
vUT_4219	Underground Transformer	16	\$14,800
vUT_4220	Underground Transformer	19	\$11,824
vUT_4221	Underground Transformer	28	\$7,065
vUT_4222	Underground Transformer	28	\$7,065
vUT_4223	Underground Transformer	29	\$4,324
vUT_4224	Underground Transformer	22	\$6,441

**RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION
 INTERROGATORIES ON ISSUE 2.2**

ID	Asset Type	Years to Optimal Intervention	Projected risk cost of underground front lot (NPV)
Total		\$11,551,746	
vUT_4225	Underground Transformer	33	\$5,399
vUT_4226	Underground Transformer	22	\$6,441
vUT_4227	Underground Transformer	29	\$4,324
vUT_4228	Underground Transformer	26	\$7,763
vUT_4229	Underground Transformer	22	\$6,441

1 **Projected non-asset risk cost of underground front lot (NPV)**

2 Event Cost Total = \$0

3 Duration Cost Total = \$0

4 NAR = \$0

5

6

7 **Maintenance**

8 Submersible Transformer Vaults = \$6,294.98

9 Cable Chambers = \$1,701.49

10 Submersible Switches = \$17,709.56

11 Discount Rate = 0.0606

12 Total = (\$6,294.98 + \$1,701.49 + \$17,709.56) / 0.0606 = \$424,191.99

RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION INTERROGATORIES ON ISSUE 2.2

- 1 c) Please also include an explanation of the assumptions the inputs are based on,
2 and show the calculations for
3 i) how the input numbers were arrived at, and
4 ii) how each of the output numbers in Tables A1, A2 and A3 and the
5 expected A4 for overhead front lot construction are arrived at.
6

7 **RESPONSE:**

- 8 c) The definitions for each of the inputs are as follows:
9 i)
10 **Total Cost of Ownership:** The cost of ownership is calculated for each
11 “state” of assets within this business case. Option 1 refers to the Existing
12 State of Assets in their existing Rear Lot overhead configuration, while
13 Options 2, 3 and 4 present the New State of assets as per new Rear Lot
14 Overhead infrastructure (Option 2), new Front Lot Overhead infrastructure
15 (Option 3) or new Front Lot Underground infrastructure (Option 4)
16 respectively. The cost of ownership (or NPV) calculation is performed over a
17 100-year period, as the calculation must be performed over the same time
18 period for all assets being evaluated, such that a comparison can be made
19 between different assets or set of assets and their respective cost of ownership
20 values. The 100-year period is long enough to cover all major asset classes
21 that are evaluated within the Feeder Investment Model (FIM). Assets with an
22 expected life shorter than the 100-year time period will be reflected within the
23 cost of ownership calculation as having multiple life cycles – the replacement
24 cost is therefore considered to account for the replacement of the asset as

RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION INTERROGATORIES ON ISSUE 2.2

1 necessary of the 100 years. Total Cost of Ownership ultimately includes three
2 components:

- 3 • Projected Risk Cost which represents the asset cost of ownership,
- 4 • Non-Asset Projected Risk Cost which represents the non-asset-related
5 risks associated with the evaluated state of assets
- 6 • Maintenance Costs associated with the evaluated state of assets

7 As each “state” of assets is not expected to change, it is assumed that non-
8 asset projected risk costs and maintenance costs will remain constant across
9 the life cycles of the associated assets.

10 ii)

- 11 i. **Projected Risk Cost:** The projected risk cost for each option represents
12 the net present value of the ‘cost of ownership’ for the asset itself. In
13 order to calculate the ‘cost of ownership’ of a single asset, the estimated
14 annualized risk is plotted along with its ‘Equivalent Annual Cost’ (EAC),
15 as shown in Figure 1. Note that the EAC is the minimum life cycle cost of
16 the asset, including both capital cost as well as future risk. The EAC
17 defines the cost that is incurred every year, for the ownership of the asset,
18 in a specific design for all future years. For the existing asset, only the
19 risk is taken into account since the replacement cost is a sunk cost. As
20 such, the asset follows its risk cost curve until it reaches its optimal
21 replacement timing, at which point it should be replaced and thus, begins
22 to follow the EAC line. The net present value of these costs from the
23 current age onwards, over a 100-year period, represents the asset-related
24 ‘Cost of Ownership’ of an asset in a particular design. The cost of
25 ownership is represented by the region shaded blue in Figure 1.

RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION INTERROGATORIES ON ISSUE 2.2

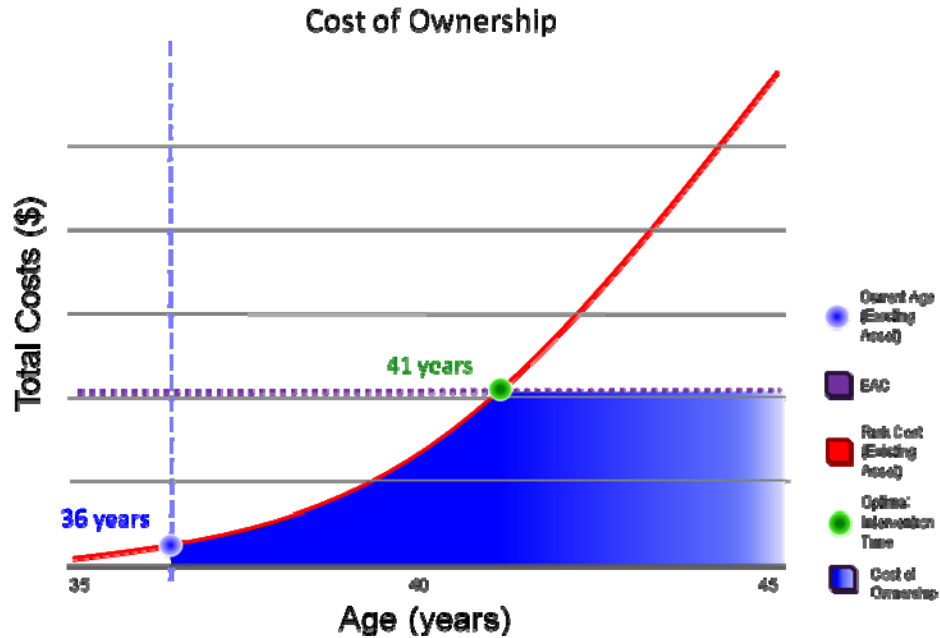


Figure 1 – Cost of Ownership Calculation (Example)

ii. **Projected Non-Asset Risk Cost:** The projected non-asset risk cost for each option represents the net present value of the non-asset risks associated with the “state” of assets that exist in each option evaluated. The Projected Non-Asset Risk Cost can be calculated as follows:

$$\bullet \text{ NAR} = ((\text{SAIFI}_{\text{EFFECT}})(\text{EVENTS})(\text{LOAD}) + (\text{SAIDI}_{\text{EFFECT}})(\text{EVENTS})(\text{LOAD})(\text{AVG}_{\text{DUR}}))/\text{DISCOUNT}_{\text{RATE}}$$

Where:

- SAIFI_{EFFECT} (\$30) represents the cost associated with this first period of the interruption.
- SAIDI_{EFFECT} (\$15) represents the cost associated with this second period of the interruption.

RESPONSES TO ENERGY PROBE RESEARCH FOUNDATION INTERROGATORIES ON ISSUE 2.2

- 1 ○ EVENTS represents the total quantity of non-asset-related
2 events for the assets that are being evaluated. Note that this
3 total quantity is based upon the length of feeder that is being
4 exposed to these non-asset-related events.
5 ○ LOAD represents the peak load in kVA that will be interrupted
6 due to the outage event.
7 ○ AVG_{DUR} represents the average duration of non-asset-related
8 events as reported along the feeder.
9 ○ $DISCOUNT_{RATE}$ represents THESL's corporate discount rate
10 of 6.06%.

11
12 **iii. Maintenance:** Maintenance costs are calculated for both rear-lot overhead
13 plant as well as underground plant within this business case evaluation. For
14 rear-lot overhead plant, the costs for tree trimming and pole inspections are
15 considered as per the formula below:

16 • $MC = (TT_{COST} + INSPECT_{COST}) / DISCOUNT_{RATE}$

17 Where:

- 18 ○ TT_{COST} represents the cost associated with tree trimming.
19 ○ $INSPECT_{COST}$ represents the cost associated with pole
20 inspections.
21 ○ $DISCOUNT_{RATE}$ represents THESL's corporate discount rate
22 of 6.06%.

TECHNICAL CONFERENCE UNDERTAKING RESPONSE INTERVENOR 7 – ENERGY PROBE RESEARCH FOUNDATION

1 **UNDERTAKING NO. JT2.10:**

2 **Reference(s): Updated Evidence Tab 2, Addendum Pages 13/14, Tables 1&2**
3 **Updated Evidence Tab 4, Schedule A, Appendix1, Page 1**
4 **Summary of Capital Program**
5 **Updated IRR Tab 6E, Schedule 11-16, Parts a), b)**

6

7 Provide notional rate base calculations for 2012, 2013, and carry-over opening balance
8 for 2014 on the same basis as shown in VECC #16(a) and (b), as requested in Energy
9 Probe TCQ #1, parts (b) and (c).

10

11 **RESPONSE:**

12 In order to provide the most clear basis for its answer, THESL has responded to the
13 entirety of Energy Probe TCQ #1 below.

14

15 **a) Energy Probe TCQ#1a): Please provide in tabular form the current forecast of**
16 **2012 YTD and forecast and 2013 forecast CAPEX by major category per the**
17 **first reference.**

18

19 THESL does not have a more up-to-date spending forecast of capex than that
20 provided in Tab 4, Schedule A, Appendix1. However, the revised table provided
21 below includes an increase to the 2012 capex as a result of a correction for an
22 understatement of ICM Engineering Capital. This understatement was caused by a
23 calculation error which utilized a lower allocation rate for Engineering Capital to the
24 ICM projects. Engineering Capital represents fixed labour costs directly associated
25 with design, planning and construction of capital projects, and the application of this
26 correction more accurately reflects the total cost of the ICM projects. The corrected

TECHNICAL CONFERENCE UNDERTAKING RESPONSE INTERVENOR 7 – ENERGY PROBE RESEARCH FOUNDATION

- 1 forecast of the updated evidence, originally provided in Tab 4, Schedule A,
- 2 Appendix 1, page 1 of the Summary of Capital Program, is presented below:

Schedule Number	Projects	Segments	2012 Cost Estimates (\$M)	2013 Cost Estimates (\$M)
			2012 Forecast	2013 Budget
B1	Underground Infrastructure and Cable	Underground Infrastructure	28.75	58.94
B2		Paper Insulated Lead Covered Cable - Piece Outs and Leakers	0.08	5.42
B3		Handwell Replacement	13.65	16.65
B4	Overhead Infrastructure and Equipment	Overhead Infrastructure	9.07	55.88
B5		Box Construction	0.58	23.04
B6		Rear Lot Construction	16.36	29.43
B7		Polymer SMD-20 Switches	-	1.53
B8		SCADA-Mate R1 Switches	-	1.43
B9	Network Infrastructure and Equipment	Network Vault & Roofs	2.84	18.76
B10		Fibertop Network Units	1.48	7.71
B11		Automatic Transfer Switches (ATS) & Reverse Power Breakers (RPB)	-	3.26
B12	Station Infrastructure and Equipment	Stations Power Transformers	0.38	3.48
B13.1 & 13.2		Stations Switchgear - Municipal and Transformer Stations	1.73	21.81
B14		Stations Circuit Breakers	0.76	0.55
B15		Stations Control & Communication Systems	0.14	1.00
B16		Downtown Station Load Transfers	0.68	2.14
B17	Bremner TS	Bremner Transformer Station	8.50	81.00
B18	Hydro One Capital Contributions	Hydro One Capital Contributions	22.98	48.12
B19	Feeder Automation	Feeder Automation	2.30	20.66
B20	Metering	Metering	4.74	8.40
B21	Plant Relocations	Externally-Initiated Plant Relocations and Expansions	10.16	24.84
B22	Grid Solutions	Grid Solutions	-	-
BXX	Engineering Capital	ICM Understatement of Capitalized Labour	8.32	-
C1	Operations Portfolio Capital		120.51	121.63
C2	Information Technology Capital		22.00	15.00
C3	Fleet Capital		0.80	2.00
C4	Buildings and Facilities Capital		5.00	5.00
	Allowance for Funds Used During Construction		1.20	1.40
Total			283.00	579.09

**TECHNICAL CONFERENCE UNDERTAKING RESPONSE
 INTERVENOR 7 – ENERGY PROBE RESEARCH FOUNDATION**

- 1 **b) Energy Probe TCQ#1b) - Please provide a schedule based on Reference 2 that**
 2 **shows, for each category of capital cost, the forecast amount of In- Service**
 3 **Additions (ISAs -additions to Notional Rate Base) by quarter for 2012 YTD**
 4 **and estimate, 2013 including carryover into 2014.**

2012 Cost Estimates (\$M)									
	2012 Forecast	Actual Q1 2012 In- Service	Actual Q2 2012 In- Service	Forecast Q3 2012 In- Service	Forecast Q4 2012 In- Service	2012 CWIP Additions (In- Service)	2012 CWIP Additions (Not In- Service)	Forecast 2013 In-Service for 2012 Carryforward	Forecast 2014 In-Service for 2012 Carryforward
Total	283.00	10.01	14.81	31.24	60.25	116.31	166.69	140.59	26.10
Percentage In-Service Additions						41%		50%	9%

2013 Cost Estimates (\$M)				
	2013 Budget	2013 CWIP Additions (In- Service)	2013 CWIP Additions (Not In- Service)	Forecast 2014 In-Service for 2013 Carryforward
Total	579.09	283.76	295.33	295.33
Percentage In-Service Additions		49%		51%

- 5 **c) Energy Probe TCQ#1 c) - Please provide the calculation of the notional rate base**
 6 **(opening and closing) associated with the projects for 2012, 2013 and 2014 (using**
 7 **2011 approved RB as the base).**

8

9 The notional Rate Base calculation is provided in the table. Please note the following
 10 assumptions:

- 11 • no consideration was given to 2011 end of year CWIP in-service for 2012 and
 12 2013

TECHNICAL CONFERENCE UNDERTAKING RESPONSE INTERVENOR 7 – ENERGY PROBE RESEARCH FOUNDATION

- 1 • working capital allowance was increased year over year at 0.068% from the
 2 approved 2011 working capital allowance

Notional Rate Base - based on In-Service Additions

<u>2011 Approved</u>	<u>NFA Continuity (excl CWIP)</u>	<u>2012P</u>	<u>2013P</u>
1,897	Opening balance	2,105.1	2,084.7
-	<i>Energization of CapEx, 2012</i>	116.3	140.6
-	<i>Energization of CapEx, 2013</i>	-	283.8
▶ 349	Energized	116.3	424.4
▶ (142)	Amortized	(136.7)	(136.0)
▶ 2,105.1	Ending balance	2,084.7	2,373.1
2,001	Average balance	2,095	2,229
<u>2011 Approved</u>	<u>Rate Base Continuity - Projection</u>	<u>2012P</u>	<u>2013P</u>
2,001	Average NFA balance	2,095	2,229
▶ 297	Working capital allowance	▶ 299	▶ 301
▶ 2,298	Rate Base	2,394	2,530

- 3 **d) Energy Probe TCQ#1 d) - Please reconcile the response to parts a)-c) to the In**
 4 **Service capital forecasted in the second reference –VECC-16.**

5
 6 Please find below the requested reconciliation of parts a) – c) as it relates to IR VECC
 7 #16 (Tab 6E, Schedule 11-16):

Source Reference	2012 Capital Program			2013 Capital Program		
	Column	\$ value		Column	\$ value	
As per Part a)	2012 Cost Estimate (\$M)	283.00	(A)	2013 Cost Estimate (\$M)	579.09	(B)
As per Part b)	2012 Forecast	283.00		2013 Budget	579.09	
<i>Difference</i>		-			-	
As per Part b)	2012 CWIP Additions (In-Service)	116.31	(X)	2013 CWIP Additions (In-Service)	283.76	(Y)
As per Part c)	Energization of CapEx, 2012 in 2012P	116.31		Energization of CapEx, 2013 in 2013P	283.76	
<i>Difference</i>		-			-	
As per Tab 6E Schedule 11-16	2012 Forecasted Capital In-Service (%)	41%		2013 Forecasted Capital In-Service (%)	49%	
As per above	= (A) / (X)	41%		= (B) / (Y)	49%	
<i>Difference</i>		0%			0%	

**TECHNICAL CONFERENCE UNDERTAKING RESPONSE
INTERVENOR 7 – ENERGY PROBE RESEARCH FOUNDATION**

1 **UNDERTAKING NO. JT2.11:**

2 **Reference(s): Updated IRR Tab 6C, Schedule 7-4, Page 2**
3 **Updated Evidence Tab 2, Addendum Pages 13/14, Tables 1 & 2**
4 **Updated/Corrected Tab 2, Appendix 3, Comparative Revenue**
5 **Requirements Analysis**
6 **Updated IRR Tab 6E, Schedule 11-16, Parts a), b)**

7
8 Provide answer to EP TCQ 12:

9 There are two proposed methodologies to estimate the Revenue Requirements related to
10 the ICM, termed by THESL Standard and Alternative. This TCQ confirms the
11 differences and requests a second alternative based on forecast In Service Additions for
12 2012 and 2013.

13 a) Confirm the forecast CAPEX spend is still the current amount for 2012 and 2013.

14 b) Reconcile the CAPEX amounts shown in the first reference with Tab 2 Addendum
15 Pages 13/14 Tables 1&2.

16 c) Assume that In-Service Additions (ISAs) by year are as shown in VECC-16 and
17 recast the Table in reference #1 with amended additions (line 3) including approved
18 actual 2011 and forecast carryover into 2014.

19 d) Please provide a MS Word or PDF Version of the Notes to Tab 2 Appendix 3.

20 e) Please provide a calculation of the 2011-2013 Revenue Requirements using the
21 methodology in the third reference BUT using the latest forecast of CAPEX and ISAs
22 provided in the references and responses to parts a)-c).

23 f) Please provide chart(s) showing the CAPEX, ISAs, notional Rate Base (average) and
24 Revenue Requirements from 2011-2013.

**TECHNICAL CONFERENCE UNDERTAKING RESPONSE
 INTERVENOR 7 – ENERGY PROBE RESEARCH FOUNDATION**

1 g) Please provide the Rate Base and Revenue Requirement impact of a delay of \$10
 2 million in scheduled ISAs for 2013.

3
 4 **RESPONSE:**

5 a) Please refer to JT2.10 part a).

6
 7 b) The difference shown in the first reference and Tab 2 Addendum pages 13 and 14
 8 Tables 1 and 2 are disposals (2012 - \$0.2M and 2013 - \$0.5M). The first reference is
 9 presented as net capex, while the second reference is gross capex.

10
 11 c) Please see the table below:

	2011 Approved	2011 Actual	2012 (YTD) Actual	2012 Forecast	2013 Forecast
CAPEX	\$ 378.8	\$ 445.5	\$ 152.5	\$ 283.0	\$ 579.1
<i>GROSS FIXED ASSETS</i>					
Opening Balance	\$ 4,183.6	\$ 4,179.7	\$ 4,607.8	\$ 4,607.8	\$ 4,724.1
Additions	\$ 348.9	\$ 439.1	\$ 120.8	\$ 116.3	\$ 424.4
Disposals	\$ -	\$ (11.1)	\$ (6.2)	\$ -	\$ -
Closing Balance	\$ 4,532.5	\$ 4,607.8	\$ 4,722.3	\$ 4,724.1	\$ 5,148.4
<i>ACCUMULATED DEPRECIATION</i>					
Opening Balance	\$ (2,285.7)	\$ (2,283.9)	\$ (2,424.2)	\$ (2,424.2)	\$ (2,560.9)
Accumulated Depreciation	\$ (141.6)	\$ (148.6)	\$ (93.0)	\$ (136.7)	\$ (136.0)
Disposals	\$ -	\$ 8.3	\$ 5.7	\$ -	\$ -
Closing Balance	\$ (2,427.4)	\$ (2,424.2)	\$ (2,511.5)	\$ (2,560.9)	\$ (2,696.9)
<i>NET FIXED ASSETS OPENING BALANCE</i>	\$ 1,897.8	\$ 1,895.8	\$ 2,183.5	\$ 2,183.5	\$ 2,163.2
<i>NET FIXED ASSETS CLOSING BALANCE</i>	\$ 2,105.1	\$ 2,183.5	\$ 2,210.9	\$ 2,163.2	\$ 2,451.5
Average NFA	\$ 2,001.4	\$ 2,039.7	\$ 2,197.2	\$ 2,173.3	\$ 2,307.3
Working Capital Allowance	\$ 296.7	\$ 313.6	n/a	\$ 326.2	\$ 348.5
Rate Base	\$ 2,298.2	\$ 2,353.2	n/a	\$ 2,499.5	\$ 2,655.8

12 d) Please see attached table in Appendix A to this Schedule.

**TECHNICAL CONFERENCE UNDERTAKING RESPONSE
 INTERVENOR 7 – ENERGY PROBE RESEARCH FOUNDATION**

1 e) Please see attached Appendix B to this Schedule, based on Appendix 3 of the
 2 Manager’s Summary, which calculates an approximate Revenue Requirement for the
 3 proposed 2012 and 2013 incremental ICM capital using Energy Probe’s requested use
 4 of in-service additions instead of capex amounts. The 2011 Revenue Requirement is
 5 not relevant to these calculations.

6
 7 f) Please see the table below:

	2012 (\$M)	2013 (\$M)	Sources
CAPEX	283.0	579.1	JT2.10.a
Forecast ISA Capex	116.3	283.8	Tab 6E, Schedule 11-16
Notional Rate Base	2,394.0	2,530.0	JT2.10.c
Incremental Revenue Requirement	2.1	23.7	JT2.11.e

8 g) A delay of \$10 million of scheduled in-service additions in 2013 would reduce
 9 incremental rate base by \$10 million, with an approximate reduction in 2013 revenue
 10 requirement of \$1 million (based on the assumption that only in service additions get
 11 added to rate base, and an approximate 10% revenue requirement to rate base
 12 additions estimate).

**TECHNICAL CONFERENCE UNDERTAKING RESPONSE
INTERVENOR 7 – ENERGY PROBE RESEARCH FOUNDATION**

1 **UNDERTAKING NO. JT2.12:**

2 **Reference(s):** **Managers Summary Updated and Corrected Tab 2, Page 13,**
3 **Table 1**
4 **Updated Tab 4, Schedules E1.1-1.4 and E2.1-2.4**
5 **Updated IRR Tab 6L, Schedule 7-56 and Appendix A**
6 **Updated IRR Tab 6H, Schedule 11-115, Appendices A-D**
7 **For part d) – EP TCQ 12**

8

9 Provide answer to EP TCQ 13:

- 10 a) For 2012 and 2013 Confirm and summarize in tabular form the following:
- 11 i) The ICM threshold
- 12 ii) The actual YTD and Forecast 2012 CAPEX and ISA amounts.
- 13 iii) The 2013 forecast CAPEX and ISA amounts
- 14 iv) The Revenue Requirement increment associated with the IRM Formula
- 15 b) Starting with the estimated Revenue Requirements for the Standard and Alternative
- 16 methods per the first Reference Table 1, please provide details of the derivation of the
- 17 2012 and 2013 rate adders for each class. Reconcile to the Tab 3 Rate Schedules.
- 18 c) Please provide a Summary Table that shows by class the amounts collected by the
- 19 ICM Rate Adders for 2012-2013:
- 20 i) Using the Standard Approach
- 21 ii) Using the Alternative Approach
- 22 d) Please provide a version using CAPEX and ISAs provided in response to Energy
- 23 Probe TCQ # 12.

**TECHNICAL CONFERENCE UNDERTAKING RESPONSE
 INTERVENOR 7 – ENERGY PROBE RESEARCH FOUNDATION**

1 **RESPONSE:**

2 a) Please see table below:

	2012 (\$M)	2013 (\$M)	Sources
ICM Threshold	172.989	172.989	Tab 4, E1.2 and E2.1, page 10
2012 YTD (Aug) Capex	149.3	n/a	Tab 2, Addendum, Table 1, page 13
Forecast Capex	283.0	579.1	Tab 7, Schedule 2-10
2012 YTD ISA Capex (as at Q2 2012)	24.82	n/a	
Forecast ISA Capex	116.3	283.76	Tab 7, Schedule 2-10
Rev Req increment associated with IRM formula	3.5	3.6	

Notes:

1. ICM Threshold for 2012 and 2013 based on current ICM threshold parameters
2. Rev Req increment associated with IRM formula based on 2011 Board approved Rev Req X 0.68% for 2012, and further 0.68% for 2013

3 b) The derivation of the 2012 and 2013 Rate Adders based on the Standard Model and
 4 Alternative models are provided in the following exhibits:

- 5 • 2012 Rate Adders – Standard Method: Tab 4, Schedule E1.1, page 13, Schedule
 6 E1.3, and Schedule E1.4
- 7 • 2013 Rate Adders – Standard Method: Tab 4, Schedule E2.1, page 13, and
 8 Schedule E2.3
- 9 • 2012 Rate Adders – Alternative Method: Tab 6H, Schedule 11-115, Appendix A,
 10 Tab F1.1, and Appendix C (Excel versions)
- 11 • 2013 Rate Adders – Alternative Method: Tab 6H, Schedule 11-115, Appendix D,
 12 Tab F1.1, and Appendix F (Excel versions)

13

14 To maintain the consistency with Table 1 in the pre-filed evidence, the 2012 rate
 15 adders shown in the updated Table 1 do not reflect THESL’s updated proposal to
 16 collect the incremental revenue requirement associated with the 2012 ICM spending

**TECHNICAL CONFERENCE UNDERTAKING RESPONSE
 INTERVENOR 7 – ENERGY PROBE RESEARCH FOUNDATION**

1 over the two-year period May 2013-Apr 2015.

2

3 The rate adders derived based on the Standard Method and reflecting THESL’s
 4 updated proposal related to 2012 ICM rate adders in the above referenced schedules
 5 are the rates shown in exhibit Tab 3, Schedule B2 (updated October 31, 2012) Tariff
 6 of Rates and Charges.

7

8 c) and d)

9 Please see table below. For derivation of the Revenue Requirement using Energy
 10 Probe’s in-service capital methodology, see response to JT2.11(e).

Amounts to be collected by ICM rate adders (implemented for 24 months, effective May 1, 2013)			
	Standard Approach (\$M)	Alternative Approach (\$M)	EP Alternative Approach (\$M)
Residential	42.6	37.1	23.4
Competitive Sector Multi-Unit Residential	1.6	1.4	0.9
GS<50 kW	14.0	12.2	7.7
GS 50-999 kW	32.6	28.3	17.9
GS 1000-4999 kW	10.7	9.3	5.9
LU	5.3	4.6	2.9
Streetlighting	2.5	2.1	1.4
Unmetered Scattered Load	0.8	0.7	0.4
Total	110.0	95.6	60.5
Assumptions			
1. Revenue calculated based on 2011 Board Approved Billing Units			

**TECHNICAL CONFERENCE UNDERTAKING RESPONSE
INTERVENOR 2 – ASSOCIATION OF MAJOR POWER
CONSUMERS IN ONTARIO**

1 **UNDERTAKING NO. JT2.18:**

2 **Reference(s):** **Tab 6F, 2-6**

3

4 Provide revised percentage of labour costs for 2012 and 2013.

5

6 **RESPONSE:**

7 The summary below presents revised labour costs for 2012 and 2013. As noted in
8 response to JT2.10 (Tab 7, Schedule 2-28), these values are based on a corrected version
9 of the Summary of Capital which accounts for an understatement of ICM capitalized
10 labour.

TECHNICAL CONFERENCE UNDERTAKING RESPONSE INTERVENOR 2 – ASSOCIATION OF MAJOR POWER CONSUMERS IN ONTARIO

Summary of Capital Program

Schedule Number	Projects	Segments	Cost Estimates (\$M)				
			2012 Forecast	2012 Labour	2013 Budget	2013 Labour	Total
B1	Underground Infrastructure and Cable	Underground Infrastructure	28.75	5.48	58.94	14.47	87.70
B2		Paper Insulated Lead Covered Cable - Piece Outs and Leakers	0.08	0.06	5.42	3.64	5.50
B3		Handwell Replacement	13.65	1.88	16.65	2.29	30.30
B4	Overhead Infrastructure and Equipment	Overhead Infrastructure	9.07	4.71	55.88	28.20	64.95
B5		Box Construction	0.58	0.31	23.04	11.27	23.62
B6		Rear Lot Construction	16.36	5.08	29.43	9.92	45.78
B7		Polymer SMD-20 Switches	-	-	1.53	1.29	1.53
B8		SCADA-Mate R1 Switches	-	-	1.43	0.15	1.43
B9		Network Vault & Roofs	2.84	0.79	18.76	5.81	21.60
B10	Network Infrastructure and Equipment	Fibertop Network Units	1.48	0.39	7.71	1.91	9.19
B11		Automatic Transfer Switches (ATS) & Reverse Power Breakers (RPB)	-	-	3.26	1.24	3.26
B12	Station Infrastructure and Equipment	Stations Power Transformers	0.38	0.12	3.48	0.95	3.86
B13.1 & 13.2		Stations Switchgear - Municipal and Transformer Stations	1.73	0.73	21.81	5.77	23.54
B14		Stations Circuit Breakers	0.76	0.32	0.55	0.18	1.31
B15		Stations Control & Communication Systems	0.14	0.06	1.00	0.34	1.14
B16		Downtown Station Load Transfers	0.68	0.38	2.14	0.98	2.82
B17	Bremner TS	Bremner Transformer Station	8.50	-	81.00	-	89.50
B18	Hydro One Capital Contributions	Hydro One Capital Contributions	22.98	-	48.12	-	71.10
B19	Feeder Automation	Feeder Automation	2.30	0.66	20.66	5.89	22.97
B20	Metering	Metering	4.74	2.00	8.40	2.58	13.14
B21	Plant Relocations	Externally-Initiated Plant Relocations and Expansions	10.16	3.58	24.84	5.04	35.00
B22	Grid Solutions	Grid Solutions					-
B2X	Engineering Capital	ICM Understatement of Capitalized Labour	8.32	8.32	-	-	8.32
C1	Operations Portfolio Capital		120.51	45.62	121.63	45.35	242.14
C2	Information Technology Capital		22.00	7.52	15.00	5.12	37.00
C3	Fleet Capital		0.80	0.04	2.00	0.04	2.80
C4	Buildings and Facilities Capital		5.00	0.36	5.00	0.36	10.00
	Allowance for Funds Used During Construction		1.20	-	1.40	-	2.60
Total			283.00	88.39	579.09	152.80	862.09