

1 Q. Re Section H, Tab 2, Wood Pole Line Management Program Progress
2 Report 2005 Inspection Program:

3

4 (a) Re Page 3, "Update of 2005 Work", "The program is built on the
5 strategy of focusing on the older lines first and working towards newer lines".
6 How may lines with a "year in-service" older than (i) 1983 in Eastern Region,
7 (ii) 1981 in Central Region, (iii) 1987 in Western Region, (iv) 1983 in Northern
8 Region and (v) 1976 in Labrador Region remained uninspected at the
9 conclusion of the 2005 Work? Please identify the "year in-service" of such
10 uninspected lines.

11 (b) Re Page 5, "2006 Work Plans": How many lines with a "year in-
12 service" older than 1990 in Eastern Region will remain uninspected at the
13 conclusion of the 2005 Work? Please identify the "year in-service" of such
14 uninspected lines.

15 (c) Re Page 3, "Update of 2005 Work" and Page 5, "2006 Work Plans": It
16 is apparent that lines with considerably older "years in-service" than (i) 1983
17 in Eastern Region, (ii) 1981 in Central Region, and (iii) 1983 in Northern
18 Region were not inspected in the 2005 Work, but were left to the 2006 Work
19 Plans. Is this consistent with the professed strategy of focusing on older
20 lines? If there is no consistent strategy of focusing on older lines, what in
21 practice is the program inspection methodology?

22 (d) Re Page 4, "Update of 2005 Work" (cont.): If future inspection
23 requirements for the Eastern and Western Regions are able to be reduced
24 from 800 poles to 400 poles, without "any impact on the effectiveness of the
25 program", why is a commensurate reduction in poles to be inspected not
26 being proposed for other Regions?

27 (e) Re Page 4, "Conclusions" "The budget estimate of \$2.6 M was
28 realized.": Is this reflective of the total cost of inspecting, testing, treatment,

data collection, material and providing engineering support being \$300 per pole inspected, as budgeted at Page 63 of the report titled "Wood Pole Line Management Using RCM Principles" filed with Hydro's 2005 Capital Budget Application under Section G: Appendix 2?

(f) Re "Wood Pole Line Management Using RCM Principles" filed with Hydro's 2005 Capital Budget Application under Section G: Appendix 2, Page 68 "Recommendations": Have all recommendations been followed? Please respond outlining what steps have been taken to achieve each recommendation.

(g) Re Inspection Report – TL201 – Please provide copies of the Inspection Reports for each line inspected in the 2005 inspection year.

A.	(a)	Eastern Region	TL 212 – 1966
		Central Region	TL 210 – 1969
			TL 223 – 1966
		Western Region	None
		Northern Region	TL 229 – 1976
			TL 239 – 1982
			TL 226 – 1970
			TL 227 – 1970 – reported as 67% complete, however 33% was replaced during upgrade in 2002, and will not be inspected in this cycle.
		Labrador Region	None

(b) There are two lines in the Eastern Region with a year in service older than 1990 that do not have complete inspection performed at the end of 2005. They are TL 212 (1966), and TL 218 (1983)

1 (c) All lines were ranked based on three criteria; (1) age, (2) priority (radial
2 or redundant), and (3) known problems. Lines greater than 30 years old
3 were scheduled to be inspected no longer than 4 years into the program.
4 Using this information, a newer radial line with known issues can take
5 priority over an old redundant line with no problems. All lines were
6 ranked, and a schedule was developed for each region according to what
7 could be accomplished in each year.

8
9 (d) The total pole count for the Eastern Region is only 3,676 poles. All old
10 lines that have a history of major issues have been inspected (TL 201
11 and TL 203). Reducing the annual inspection quantity on the remaining
12 lines will not have a major impact, as there is no known history of major
13 problems on these lines. Similarly, in the Western Region (3,390 poles),
14 all old lines that have a history of problems have been inspected, with
15 only TL 250 (constructed in 1987) remaining. The only other region to
16 which this reduction can be proposed is the Labrador Region, with 2,640
17 poles. Labrador has only one line, which does not have any known
18 history of major issues. 792 poles have been scheduled for 2006,
19 however this number may be reduced based on results obtained during
20 the inspection, and applying the same philosophy as Eastern and
21 Western Regions. Both Central and Northern Regions have 8,000 poles
22 to be inspected in 10 years and must maintain 800 poles per year to
23 finish the complete cycle, as no pole in any region should be left for more
24 than 10 years without an inspection.

25
26 (e) The budget cost of \$2.6 M includes inspection, testing, treatment, data
27 collection, materials, and engineering support. \$300 per pole for
28 inspection is still considered a good budget number. It should be noted

that the cost of component replacement as required during the 2005 year is also included in the budget cost of \$2.6 M.

(f) The following is an outline of the steps followed to achieve each recommendation as per "Wood Pole Line Management Using RCM Principles". Each recommendation is listed as "R", and the steps taken are listed as "S".

R1 Implement the inspection, test and treatment program in 2005 and complete the entire inspection, test and treatment program for 26,000 poles by 2013.

S1 The schedule is being followed with modifications as results dictate following the philosophy as presented in the report. Timing to complete 26,000 poles by 2013 is on schedule.

R2 Repeat the program for the next 10 years, i.e. between 2014-2023, to investigate the benefit in the second year cycle (improved rate of rejection in the second cycle) as per estimated data (Figs. 4.1 and 5.3) and future validation.

S2 Repeat of the program will commence in 2014.

R3 Operations to carry out inspections of these poles on an annual basis and to send this data to Engineering for further analysis in a timely fashion. Engineering will carry out the analysis and make the appropriate recommendations to Operations for future refurbishment and/or pole replacement program under a capital budget proposal.

S3 Data analysis has been performed on the 2005 inspection results, and has been passed on to Operations. The required refurbishment work is scheduled to be performed this year.

1 R4 If the analysis identifies that a large number of poles need to be
2 replaced then a separate study should be undertaken considering full
3 refurbishment and/or upgrading or even building a new line before a
4 capital program is launched.

5 S4 To date, no separate study has been required for line
6 replacement.

7
8 R5 The program should be expanded to investigate other
9 component inspection data closely e.g. knee braces, conductor,
10 insulators, hardware to confirm that other components have a
11 considerable residual life left before any major pole replacement program
12 is undertaken.

13 S5 Many tests have been performed at Memorial University. Knee
14 brace tests have been performed to compare visual condition with
15 strength. Conductor and insulator tension tests were performed on 35-
16 year-old conductor to determine deterioration over time. Worn hardware,
17 particularly ball link eye bolts were tension tested to compare wear
18 amounts with ultimate strength. The information gathered from these
19 tests has been incorporated into the analysis of new data.

20
21 R6 Data to be analyzed to develop a "Replacement Criteria" for
22 Wood Pole Lines based on a minimization of cost model as shown in Fig.
23 1.1. Some initial work has been completed as part of this study and this
24 should be followed up further for validation of this model with additional
25 field data.

26 S6 Engineering is currently working on a condition-based model,
27 and the results will be reported in the future.

1 R7 It is noted that any cost model developed should include the
2 cost of deferral of building new lines in the future. To accomplish this,
3 data must be collected to ensure that the rate of decay and the
4 preservative depletion rate can be correlated (Fig. 3.9). It is important to
5 know when treatment is no longer effective in life extension.

6 S7 Core samples are extracted from 10% of all poles tested, as
7 well as any pole noted as having significant defects. This data has been
8 used for making decisions on pole ranking.

9
10 R8 In each year of this inspection program, a separate fund is
11 allocated to do routine testing of components including the in-service
12 wood poles of various ages to develop a long-term database. Hydro, in
13 collaboration with MUN, has developed special benches to do this type of
14 testing and this should be funded annually.

15 S8 Poles removed from service in 2005 were in poor condition,
16 and were considered unsuitable for testing. Due to the high number of
17 poles requiring replacement in 2005, no additional poles were extracted.

18
19 R9 Once the program is in place, all routine data analysis for the
20 current inspection year should be completed by the year-end with
21 appropriate recommendations made to justify replacement and/or
22 upgrading for the subsequent year. This will provide documentation of
23 the line inspected in a year and the various actions that have been taken
24 to provide remedial measures. To do this in a systematic manner, proper
25 resource allocation is needed and has been reflected in the CBP.

26 S9 Data from the 2005 inspection year has been tabulated and
27 analyzed. Recommendations have been made and passed on to
28 Operations. Work Orders were created, and the refurbishment has been
29 scheduled to be completed by year end.

1 R10 A working group be formed within Hydro's TRO division, which
2 should include representatives from Engineering, Operations, and
3 System Planning. The primary role will be to review the annual
4 Engineering report on the inspection results and make appropriate
5 recommendations.

6 S10 A formal working group has not been formed, however
7 discussions regarding the inspection data are held on an as required
8 basis between the three groups.

9

10 A (g) See attached.

Inspection Report – TL 201

Report Coverage: 2005 inspection year

Report Issued April 19, 2006

General Line Description:

- Construction Type: Wood Pole H-Frame
- Operating Line Voltage: 230kV
- Geographic Location: Western Avalon Substation (Chapel Arm) to Hardwoods Substation (St. John's)
- Year of Construction: 1966
- Line Length: 80.6km
- Basic Line Loading, Original Design:
 - 1" Radial Glaze
 - 110MPH Gust Wind
 - 0.5" Ice / 55MPH Wind

Construction Summary:

- Total Wood Poles: 811
- Pole Size: CL2 (85%), CL4 (15%)
- Suspension: 85%
- Angles and Deadends: 15%
- Species (based on inspection data)
 - Douglas Fir 36%
 - Southern Pine 32%
 - Western Red Cedar 32%

Pole Length Breakdown (Percent):

30'	50'	55'	60'	65'	70'	75'	80'
0.5%	7%	18%	18%	27%	18%	11%	0.5%

Past Performance:

- Significant Line Failures:
 - 1984 – Section from Structure 115 to Structure 151 collapsed under estimated 50mm glaze ice and 50kph wind
 - 1994 – Collapse of 7 structure just outside Western Avalon station
- Line Upgrades:
 - 1988 – Sections of the line were upgraded to 3" radial glaze ice by the addition of mid span structures, and reconductoring using 795ACSR
 - 1994 – Replacement of the section that collapsed was upgraded using 1192 ACSR 54/19 conductor
- Previous Inspections:
 - Standard preventive maintenance inspections (20% annually) until 2002. No major pole replacements. Many worn eyebolts on suspension structures replaced. COB insulator periodically replaced.
 - 1985 – Entire line inspected. No poles rejected, signs of decay and poor pole preservative retention noted. No retreatment applied.
 - 1998 – Entire line inspected. 45 poles rejected and replaced in 1998. Preservative levels very low. No retreatment applied.
 - 2003/2004 – 597 poles inspected. 9 poles replaced in spring 2006.

Current Inspection (covered by this report)

- 214 poles (26% of total) inspected – Note: Line inspection now complete
- 64 poles (8.2%) recorded as possible rejections by field crew
- 27 poles (3.5%) scheduled for replacement after analysis
- Major pole issue: rot at pole tops and groundline
- Minor pole issues: some carpenter ants and woodpeckers
- 99 poles after 2006 replacement program (including 62 from 2003/2004 inspection) will require periodic monitoring
- Eyebolt wear on suspension structures continues to be an issue
- Preservative retention: average 0.08pcf (minimum required 0.18pcf)

Future Work

- 2006
 - Replace 27 poles, remaining COB insulators, and other noted defects in 2006 using existing WPLM CJC
 - Scheduled inspection complete
- After 2005
 - Periodically monitor 99 poles, numerous other wood items, and eye bolts
 - Schedule next major inspection for 2014

WPLM Inspection 2005

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
213	0	Replace 1 COB insulator, centre phase		
215	0	Replace 1 COB insulator, right phase		
216	0	Replace 1 COB insulator, centre phase	Guy wires and grips noted as “other” with no description	
217	0	Replace all ball link eye bolts – work flush Replace left pole, rated 4, internal decay (4), 2” shell bottom brace Replace right pole, rated 3, internal decay (3), 4” shell, 2” cavity at knee braces		
218	0	Replace left pole, rated 4, carpenter ants (3), internal decay (4), 4” cavity bottom brace and butt		
219	0	Repair right phase for 2 broken strands		
220	0	Replace right pole, rated 4, external decay (4), internal decay (3), shell separation (4), “shelly, not good to climb”		
221	0		Left pole, rated 2, checking (4)	
222	0	Replace right pole, rated 4, external decay (4), internal decay (3), shell separation (3)		
223	0	Remove old pole left on site		
224	0		Left pole, rated 2, shell separation (3) Right pole, rated 3, internal decay – 6” shell, shell separation (3)	
225	0		Left pole, not rated, rot pocket at bottom brace, 4” shell, 2” cavity	
226	0		Right pole, rated 2, shell separation (3)	
227	0	Reset torsional dampers Replace 1 COB insulator, centre phase Replace 1 COB insulator, right phase Replace centre pole, rated 4, 3” shell, 3” cavity at crossarm, shell separation (3), internal decay (4) Replace crossarm rated 3, checking, twisted, bowed		
229	0		Left pole, rated 3, external decay (3), shell separation (3), not good for climbing	
231	0	Replace 1 COB insulator, left phase		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
232	0		Left pole, rated 3, external decay (3), shell separation (3) Right pole, rated 3, external decay (3), shell separation (3) Both poles weather beaten on side, not good for climbing	
234	0		Left pole, rated 3, shell separation (3), external decay (3), shelly, top leaning bad, not good for climbing	
235	0		Left pole, rated 3, shell separation (3), 2' bend, not good for working	
237	0		Right pole rated 3, external decay (3), shell separation (3), shelly, not good for climbing	
240	0	Replace 1 COB insulator, right phase Replace right pole, rated 4, 2" shell, 3" cavity at crossarm, internal decay (4)		
241	0		Right pole, rated 3, shell separation (3), external decay (3), shelly, not good for climbing	
242	0		Right pole, rated 3, shell separation (3)	
244	0		Right pole, rated 2, shell separation (4)	
245	0	Reset left and centre phase dampers ("can reach with boom")	Left pole, rated 3 Right pole, rated 3, internal decay (3), 1.5" shell noted, however no comment provided, assumed to be at top.	
249	0		Left and centre phase insulators not plumb	
250	0		Left pole, rated 2, external decay (3)	
251	0		Left pole, rated 3, shell separation (3) Right pole, rated 4, shell separation (4)	
253	0	Repair right phase for 1 broken strand	Right pole, rated 2, shell separation (3)	
254	0	Replace right pole, rated 4, 1.5" shell noted with no location provided , external decay (3), shell separation (4)		
255	0		Insulators not plumb, all phases Left pole, rated 2, shell separation (3)	
256	0	Replace left pole, rated 4, 3-4" shell at bottom brace, internal decay (4)		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
260	0	Replace 1 COB insulator, centre phase	Left pole, rated 3, shell separation (3), not good for climbing Right pole, rated 3, shell separation (3), not good for climbing	
261	0	Replace left phase eye bolt, worn flush – reassess remaining eye bolts	Structure leaning to load	
262	0		Crossarm rated 3	
263	0	Replace all eye bolts, worn flush	Left pole, rated 2, internal decay (3)	
264	0		Left pole, rated 2, wood pecker holes (5) Right pole, rated 3, shell separation (3)	
265	0		Left phase, 1 broken insulator	
266	0		Left pole, rated 3, shell separation (3) Right pole, rated 3, shell separation (3), 1.5” cavity, top brace	
268	0	Install inline guys, structure leaning to source		
270	0		Insulators not plumb, all phases	
271	0	Replace right pole, rated 4, internal decay (4), shell separation (3), 2.5” shell, top x-brace Replace right pole, rated 4, internal decay (4), shell separation (3), 2” shell bottom x-brace		
272	0		Insulators not plumb, all phases	
273	0		Insulators not plumb, all phases	
277	0	Replace corroded preform, top left pole		
278	0	Left pole, RATED 2 , external decay (3), internal decay (3), shell separation (4), “very shelly, cavity bottom brace, needs to be replaced”		
279	0		Left pole, rated 2, checking (3)	
281	0		Crossarm rated 3 (checking) Left pole, rated 2, shell separation (3) Right pole, rated 2, shell separation (3)	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
282	0	Replace all eye bolts, worn flush Replace 1 COB insulator, right phase Replace 5 COB insulator, centre phase		
283	0	Replace 21 COB insulator, left phase Replace 22 COB insulator, centre phase Replace 14 COB insulator, right phase		
284	0	Replace short crossarm, rated 4, rotten on end Replace 15 COB insulator, left phase Replace 12 COB insulator, centre phase Replace 18 COB insulator, right phase		
284	1	Replace 20 COB insulator, left phase Replace 14 COB insulator, centre phase Replace 23 COB insulator, right phase	Right pole, rated 2, wood pecker holes (3)	
285	0	Replace left pole, rated 4, internal decay (4) 1.5" shell, no location Replace right pole, rated 4, internal decay (4) 1.5" shell, no location Structure leaning to source, correct during pole replacement		
286	0		Structure leaning to load Left pole, rated 2, "1 inch hole at butt????"	
287	0		Structure leaning to load Insulator plumbness not ok	
289	0	Reset left phase damper, moved Replace 2 COB insulators, centre phase Replace left pole, rated 4, carpenter ants, pole top rot		
291	0	Replace left pole, rated 4, internal decay (4), 2" shell, no location, wood pecker holes (3), shell separation (3)		
292	0	Replace left pole, rated 4, 2-2.5" shell at butt, internal decay (4), carpenter ants (3) Replace right pole, rated 4, 1.5-2" shell at butt, internal decay (4), carpenter ants (3), shell separation (4)		

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Str	Suf.	Recommended Action		
		Required	Monitor	No Action
294	0		Structure leaning to load Insulator plumbness not ok Left pole rated 3, shell separation (3), checking (3) Right pole, rated 3, checking (3), wood pecker holes (3)	
295	0	Replace right pole, rated 4, carpenter ants (4), 2.5" shell, internal decay (3)	Left pole, rated 3, shell separation (3), checking (3)	
296	0	Replace right pole, rated 4, carpenter ants, (4)		
298	0	Replace 1 COB insulator, centre phase Replace left pole, rated 4, carpenter ants (5), internal decay (4)		
299	0	Replace left pole, rated 4, 2.5" shell, no location, external decay (3), shell separation (5) Replace right pole, rated 4, carpenter ants (5), internal decay (4), 2-3" shell at groundline		
301	0		Right pole, rated 2, shell separation (3), checking (3)	
304	0	Replace 2 COB insulators, centre phase Replace 2 COB insulators, right phase Replace right pole, rated 4, wood pecker holes (3), carpenter ants (4), 1/5-2.5" shell, internal decay (4), "ants, lower brace"		
305	0	Replace left phase deadend, rated 5		
306	0	Replace crossarm, rated 4 Replace right phase suspension clamp Replumb insulators, all phases Replace 1 COB insulator, right phase Replace 1 broken insulator, centre phase Repair left phase for 1 broken strand Replace left pole, rated 4, carpenter ants (4), internal decay (4), 1.5" shell	Guy wires and grips noted as "other" with no description	
308	0	Replace left pole, rated 4, carpenter ants (4), 1.5" shell, internal decay (4), checking (3) Reassess right pole short knee brace rated 5 for other?		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
309	0	Replace 1 COB insulator, left phase	Structure leaning to load	
310	0	Replace both crossbraces, rated 4 Replace rotten blocking	Left pole, rated 2, shell separation (3)	
311	0	Replace 2 COB insulators, centre phase		
312	0	Replace 1 COB insulators, centre phase Replace 7 COB insulators, right phase Replace left pole, rated 4, wood pecker holes (3), internal decay (4), 2" shell Replace right pole, rated 4, wood pecker holes (3), internal decay (4), 2" shell		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
2	0		Crossbrace rated 3 (rot)	
3	0		Crossbrace rated 3 (checking) Crossarm rated 3 (checking)	
5	0	Repair left phase for 1 broken strand Repair centre phase for 1 broken strand		
6	0		Insulators not plumb	
7	0		Crossbrace rated 3 (checking)	
8	0	Repair centre phase for 1 broken strand Repair right phase for 1 broken strand		
10	0		Crossarm rated 3 (checking)	
17	0		Crossarm rated 3 (checking)	
20	0	Replace 7 flashed insulators, centre phase Replace 7 flashed insulators, right phase	Right pole, rated 3, shell separation (3 – 50')	
21	0		Left pole, rated 3, checking (3), 5" cavity, 3" shell Right pole, rated 2, checking (3)	
22	0	Replace right pole, rated 4, 2-3" shell, internal decay (4)	Left pole, rated 2, checking (3)	
23	0		Right pole, rated 2, checking (3)	
24	0		Right pole, rated 3, checking (3)	
27	0	Install side guys on crew recommendation		
29	0		Right pole, rated 2, checking (3)	
33	0		Guy wires and grips noted as "other" with no description Left pole, rated 2, checking (3) Right pole, rated 2, checking (3)	
35	0	Comment – "left pole in for replacement already", however no record indicates that pole is bad.		
36	0	Provide photos or orientation/description of damage, left pole, rated 3, "split through top down below arm"		
38	0		Left pole, rated 3, shell separation (3 – 60')	
43	0		Guy wires and grips noted as "other" with no description	
44	0	Install 2 guy guards		
46	0		Guy wires and grips noted as "other" with no description Right pole, rated 3, checking (3)	

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Str	Suf.	Recommended Action		
		Required	Monitor	No Action
47	0		Left pole, rated 2, shell separation (3 – 50') Right pole, rated 2, shell separation (3 – 50')	
48	0		Right pole, rated 3, carpenter ants (3), 3" shell	
49	0	Reassess right pole, rated 4, no defects recorded	Left pole, rated 3, carpenter ants (3), shell 3-4" 3 feet up from ground	
50	0		Guy wires and grips noted as "other" with no description	
51	0	Replace nut on centre DA assembly ("nut off")	Right pole, rated 3, carpenter ants (3)	
53	0	Replace 3 COB insulators, right phase	Crossarms, rated 3 and 4, checks (4), rot (3) Centre pole, rated 3, shell separation (3 – 50')	
54	0	Tighten double arm plates		
55	0	Tighten double arm brackets, all phases	Left pole, rated 2, checking (3) Right pole, rated 3, carpenter ants (3), checking (3)	
58	0		Right pole, rated 3, shell separation (3 – 50'), checking (3)	
59	0		Left pole, rated 2, checking (3) Right pole, rated 2, checking (3)	
60	0	Tighten double arm brackets, all phases		
61	0		Left pole, rated 2, checking (3)	
62	0		Right pole, rated 2, shell separation (3)	
64	0		Right pole rated 2, internal decay (3)	
65	0		Left pole, rated 2, 3-7" shell, checking (3)	
70	0		Left pole, rated 3, shell separation (3 – 35'), external decay (3) Centre pole, rated 3, shell separation (3 – 35'), external decay (3) Right pole, rated 3, shell separation (3 – 35'), external decay (3)	
71	0	Install inline guys, structure and insulators not plumb Repair right phase for 1 broken strand		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
72	0		Left pole, rated 2, shell separation (3 – 35'), external decay (3) Right pole, rated 2, shell separation (3 – 35'), external decay (3)	
73	0		Left pole, rated 2, 7 wood pecker holes, 2-3" deep	
74	0	Replace crossarm, rated 5	Left pole, rated 2, 3-4" shell, internal decay (2)??	
80	0	Tighten loose crossbrace bolts Tighten double arm assembly Repair centre phase for 2 broken strands	Right pole, rated 2, checking (3)	
81	0		Right pole, rated 2, carpenter ants (3), 3" shell, internal decay (3)	
82	0	Tighten double arm assemblies, all phases	Crossarm rated 3 (other)	
83	0	Replace source side crossbrace	Structure leaning to source Left pole, rated 3, carpenter ants (3), 2-5" shell	
84	0	Tighten crossbrace centre bolt		
85	0	Tighten double arm assembly bolts, all phases	Centre phase insulator string flashed	
86	0	Replace left pole, rated 5, carpenter ants (5), ½" shell Replace centre pole, rated 5, carpenter ants (5), ½" shell		
88	0	Replace right pole, rated 5, however, no description was provided, and the individual pole condition rankings give a good, solid pole		
89	0		Left pole, rated 2, external decay (3) Right pole, rated 2, external decay (3)	
90	0	Replace left pole, rated 5, wood pecker holes (5), 1" shell, internal decay (5), external decay (4), shell separation (4) Replace right pole, rated 5, wood pecker holes (5), 0.5"-1" shell, internal decay (5), external decay (4), shell separation (4)	Crossbrace rated 3 (checks and cracks)	
91	0		Left pole, rated 2, shell separation (3)	
92	0		Left pole, rated 2, checking (3) Crossbrace rated 3 (cracks)	
93	0		Right pole, rated 2, checking (3)	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
94	0		Left pole, rated 2, checking (3)	
95	0	Replace crossarm, rated 5	Left pole, rated 2, checking (3)	
96	0	Replace left pole, rated 4, carpenter ants (4), 1.0-1.5" shell, internal decay (4) Replace right pole, rated 4, carpenter ants (4), 1.5-2.5" shell, internal decay (3)		
97	0		Left pole, rated 2, checking (3)	
98	0		Left pole, rated 2, checking (3) Right pole, rated 2, 4-5" shell	
99	0	Replace right pole, rated 4, carpenter ants (5), 1-3" shell, internal decay (5), external decay (3), checking (3)		
100	0	Install anti-split bolt, right pole, rated 2, split in top	Left pole, rated 2, shell separation (3 – 10')	
101	0	Replace left phase damper	Left pole, rated 2, external decay (3), shell separation (3 – 55') Right pole, rated 2, external decay (3), shell separation (3 – 55')	
102	0	Tighten double arm plates, all phases	Left phase flashed	
105	0	Repair right phase for 1 broken strand		
106	0	Tighten double arm plates, all phases		
107	0	Tighten crossbrace centre bolt		
108	0	Replace 7 flashed insulators, left phase		
109	0		Centre pole, rated 2, carpenter ants (3), internal decay (3)	
110	0	Comment "no x-brace" (???Was there supposed to be???)		
111	0	Replace left phase double arm assembly nut (missing)	Right pole, rated 2, external decay (2)	
117	0	Replace right pole, rated 4, carpenter ants (4), 2-5" shell		
118	0		Left pole, rated 2, carpenter ants (3)	
121	0		Left pole, rated 2, checking (3) Right pole, rated 2, checking (3)	
123	0		Structure leaning left Insulators not plumb Right pole, rated 2, external decay (3)	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
124	0	Repair left phase for 1 broken strand Repair centre phase for 1 broken strand Install 2 guy guards		
125	0		Right pole, rated 2, shell separation (3 – 50')	
126	0		Right pole, rated 2, checking (3)	
127	0	Tighten centre bolt, cross brace		
129	0	Replace right pole, rated 4, 1.5-3" shell, checking (3), carpenter ants (4)		
130	0		Left pole, rated 2, external decay (3) Right pole, rated 3, external decay (3), shell separation (4)	
133	0		Left pole, rated 2, shell separation (3 – 65') Right pole, rated 2, shell separation (3 – 65')	
135	0	Tighten double arm plates		
136	0		Left pole, rated 3, no reason provided	
138	0		Left pole, rated 2, shell separation (3 – 15')	
139	0	Install 1 guy guard		
140	0	Replace right pole, rated 4, 1-2" shell, carpenter ants (5)		
141	0		Right pole, rated 2, wood pecker holes (5), checking (3)	
142	0	Replace crossarm, rated 4		
144	0	Install 5 guy guards		
145	0		Right pole, rated 2, shell separation (3)	
146	0	Replace right pole, rated 4, internal decay (4), 1" shell		
148	0		Left pole rated 2, shell separation (3 – 30') Right pole rated 3, shell separation (5 – 50')	
150	0		Right pole, rated 2, checking (3)	
151	0		Right pole, rated 2, checking (3 – 70')	
152	0	Replace left pole, rated 4, however, no description was provided, and the individual pole condition rankings give a good, solid pole		
153	0		Right pole, rated 2, shell separation (3)	
154	0		Right pole, rated 2, shell separation (3)	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
155	0	Replace left pole, rated 4, 2-3" shell, internal decay (4) Replace right pole, rated 4, 0.5-1" shell, internal decay (5)		
157	0	Replace missing nut, double arm plate		
159	0		Left pole, rated 2, shell separation (3 – 50')	
162	0	Tighten left phase insulator hardware Replace missing centre phase nut	Crossarm rated 3, split	
163	0	Replace missing crossbrace nut		
164	0	Install inline guys, structure leaning to source Repair left phase for 2 broken strands	Crossarm rated 3	
165	0		Left pole, rated 3, external decay (3), shell separation (4 – 65') Right pole, rated 2, shell separation (3 – 65')	
166	0		Right pole, rated 2, wood pecker holes (5)	
167	0	Replace missing bolt, right phase double arm assembly		
171	0		Left pole, rated 2, internal decay (3) Right pole, rated 2, internal decay (3), shell separation (3) – (50') Cross brace has pieces splitting off	
172	0		Left pole, rated 3, internal decay (4), shell separation (5) – (60') Right pole, rated 3, internal decay (4), shell separation (5) – (60'), checking (4)	
173	0		Left pole, rated 2, shell separation (3 – 55') Right pole, rated 2, shell separation (3 – 55')	
174	0	Install 6 guy guards	Right pole, rated 2, shell separation (4 – 60')	
175	0	Install 4 guy guards	Left pole, rated 2, wood pecker holes (3), shell separation (4 – 60') Right pole, rated 2, shell separation (3 – 60')	
176	0	Replace right pole, rated 4, 2-2.5" shell, internal decay (3), checking (3)		
177	0		Right pole, rated 2, wood pecker holes (5)	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
179	0		Centre phase insulators flashed Left pole, rated 2, shell separation (3) Right pole, rated 2, shell separation (3)	
180	0		Left pole, rated 2, shell separation (4 – 50') Right pole, rated 2, shell separation (4 – 50')	
181	0	Install 6 guy guards		
183	0	Replace right pole, rated 5, carpenter ants (3), 0.5" shell, internal decay (5)		
184	0		Left pole, rated 2, checking (3) Right pole, rated 3, carpenter ants (3), 4" shell, internal decay (3)	
185	0	Replace right pole, rated 5, 0.5" shell, internal decay (5)	Left pole, rated 2, checking (3)	
186	0	Tighten double arm assembly		
187	0		Left pole, rated 2, checking (3) Right pole, rated 2, checking (3)	
188	0	Replace crossbrace, rated 4 (rot) Replace right pole, rated 4, carpenter ants (5) 1-1.5" shell, internal decay (4)	Left pole, rated 2, checking (4)	
189	0	Replace left pole, rated 4, carpenter ants (5), 1.5-2.5" shell, internal decay (5) Replace right pole, rated 3, carpenter ants (4), 3-4" shell, internal decay (3)		
190	0	Reassess right pole rated 2, carpenter ants (5), pole indicated as solid with severe ant infestation?		
191	0	Replace left pole, rated 4, carpenter ants (5), 3" shell, internal decay (3)		
192	0		Right pole, rated 2, shell separation (3 – 50')	
193	0		Left pole, rated 2, internal decay (3) Right pole, rated 2, internal decay (3)	
195	0		Left pole, rated 2, internal decay (3) Right pole, rated 2, internal decay (3)	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
196	0	Install 10 guy guards Reassess earth anchors, rated good, but 14 indicated as requiring replacement	Left pole, rated 2, internal decay (3) Centre pole, rated 2, internal decay (3) Right pole, rated 2, internal decay (3), shell separation (3 – 50'), checking (3)	
198	0	Replace left pole, rated 4, carpenter ants (5), 2-3" shell, checking (3)	Right pole, rated 2, checking (3)	
199	0		Left pole, rated 2, checking (3) Right pole, rated 2, checking (3)	
200	0	Replace left pole, rated 4, carpenter ants (4), 2-4" shell, checking (3)	Crossarm rated 3 (checking)	
201	0	Tighten slack guys to replumb structure		
202	0		Structure leaning to load Left pole, rated 2, checking (3)	
205	0	Install inline guys, structure leaning to load		
207	0	Replace right pole, rated 4, carpenter ants (4), 2-3" shell	Left pole, rated 2, checking (3)	
209	0	Tighten loose bolt, bottom brace		
210	0		Right pole, rated 2, external decay (3)	
211	0	Replace centre pole, rated 4, carpenter ants (5), 1.5-3" shell, internal decay (5)		
212	0	Replace right pole, rated 4, carpenter ants (5), 2-4" shell, internal decay (5), checking (3)		
214	0	Install 8 guy guards Replace left pole, rated 5, carpenter ants (5), 1-1.5" shell, internal decay (3)		
215	0	Install inline guys, structure leaning to load	Left pole, rated 2, external decay (3), shell separation (4 – 50') Right pole, rated 2, internal decay (4), recorded as solid?	
216	0	Install 6 guy guards		
219	0		Left pole, rated 3, internal decay (3)	
220	0		Right pole, rated 2, carpenter ants (3)	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
88	0		Left pole, rated 3, shell sep Right pole, rated 3	
89	0	Replace blocking, rated 5	Guy grips and wires marked "other"? No comments	
90	0		Guy grips and wires marked "other"? No comments	
91	0	Replace blocking, rated 4 Replace left pole, rated 4, carpenter ants, internal decay	Guy grips and wires marked "other"? No comments	
92	0		Guy grips and wires marked "other"? No comments	
93	0		Guy grips and wires marked "other"? No comments	
95	0		Crossbraces rated 3 – checking Blocking rated 3	
96	0	Replace blocking, rated 4		
97	0	Replace blocking, rated 4		
98	0	Replace blocking, rated 4	Guy grips and wires marked "other"? No comments Left pole rated 3, external decay	
99	0	Replace blocking, rated 4	Guy grips and wires marked "other"? No comments Left pole rated 3, WP holes Right pole rated 3, WP holes	
100	0	Replace blocking, rated 4	Guy grips and wires marked "other"? No comments Right pole rated 3, WP holes	
101	0	Replace blocking, rated 4	Guy grips and wires marked "other"? No comments Left pole rated 3, WP holes Right pole rated 3, WP holes	
102	0		Blocking rated 3 Guy grips and wires marked "other"? No comments Left pole rated 2, shell separation (3) and external decay (3)	
103	0	Replace blocking, rated 4		
104	0	Replace blocking, rated 4		
105	0	Replace blocking, rated 4		
106	0	Replace blocking, rated 4		
107	0	Replace blocking, rated 4		
108	0		Guy grips and wires marked "other"? No comments	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
109	0		Guy grips and wires marked "other"? No comments Blocking rated 3 Crossbrace rated 3 - cracks	
111	0	Replace blocking, rated 4	Guy grips and wires marked "other"? No comments	
112	0		Guy grips and wires marked "other"? No comments Blocking rated 3	
113	0		Guy grips and wires marked "other"? No comments Blocking rated 3 Kneebrace rated 3 – checking	
114	0	Replace blocking, rated 4 Centre pole, rated 2, Carpenter Ants (4), Wood Pecker holes (4) and internal decay (4) – re-evaluate pole?	Guy grips and wires marked "other"? No comments	
115	0	Replace blocking, rated 4	Guy grips and wires marked "other"? No comments	
123	0	Replace blocking, rated 4	Crossarm – checking (3) and cracks (3) – “dry cracks, still solid”	
124	0		Blocking rated 3 Right pole, rated 2, external decay (3) and shell separation (3)	
125	0		Blocking rated 3 Left pole rated 2, shell sep (4), external decay (4), “not good to climb” Right pole rated 2, shell sep (4), external decay (4), “not good to climb”	
126	0	Replace blocking, rated 4	Structure leaning to source Crossbrace rated 2 – comment “starting to rot”	
127	0	Replace blocking, rated 4		
135	0	Replace blocking, rated 4	Left pole, rated 2, checking (3)	
139	0	Tighten slack guy wires	Centre pole, rated 2, shell separation (3) Right pole, rated 2, shell separation (3)	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
140	0		Left pole, rated 3, shell separation (4), checking (3), "big cracks top to bottom" Centre pole, rated 3, shell separation (4), checking (3), "big cracks top to bottom" Right pole, rated 3, shell separation (4), checking (3), "big cracks top to bottom"	
141	0		Structure leaning to load Left pole, rated 3, shell separation (3), external decay (3)	
147	0	Replace right pole, rated 4, 2" shell Tighten slack guys on left pole		
148	0	Replace crossbraces, rated 4	Crossarm rated 3 (cracks) Right pole, rated 3, 20' shell separation	
150	0		Left pole, rated 3, shell separation (4), "climbing hazard" Centre pole, rated 3, shell separation (4), "climbing hazard" Right pole, rated 3, shell separation (4), "climbing hazard"	
151	0	Replace left pole, rated 4, 2" shell, 5" cavity at top x-brace		
152	0	Replace right pole, rated 4, checking (3), shell separation (4), "extremely shelly, dangerous to climb"		
163	0		Left pole, rated 3, shell separation (4) Right pole, rated 3, shell separation (3) Crossarm rated 4, "2-3 years"	
165	0		Left pole, rated 3, internal decay (4), rot pocket at bottom x-brace	
167	0		Left pole, rated 2, shell separation (3) – (50')	
171	0		Left pole, rated 3, 2-3" shell 2' below knee braces	
177	0	Tighten slack guy wires	Right pole, rated 3, Carpenter Ants (3), 3-4" shell	
184	0		Blocking rated 3 Right pole, rated 2, shell separation (3)	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
192	0	Many miscellaneous problems, assess in field and make corrections as required. Pole does not qualify for change. Crew comments recorded "left pole overhead guy grip very rusty, strands broke, jumper connector on guy rusted and burned, should be changed a.s.a.p. also conductor jumper burned, pitted, 3strands broke. no thimbles on over head guys ,left and right poles. left pole leaning a lot on top".	Left pole, rated 3, checking (3)	

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
		There are many crossarm problems on this line. Only those rated 4 or 5 are recommended for replacement		
2	0		Crossarm rated 3	
3	0		Crossarm rated 3 Left pole, rated 3, no reason	
4	0		Crossarm rated 3	
5	0		Crossarm rated 3	
6	0	Replace right pole, rated 4, shell separation Replace crossarm, rated 3		
7	0		Crossarm rated 3	
9	0		Crossarm rated 3	
10	0	Replace Crossarm rated 4		
11	0		Crossarm rated 3	
13	0		Crossarm rated 3	
14	0		Crossarm rated 3	
16	0	Replace Crossarm rated 4		
17	0		Crossarm rated 3	
19	0	Replace Crossarm rated 4		
20	0	Replace Crossarm rated 4	Left pole, rated 3, no reason	
21	0		Left pole, rated 2, checking (3)	
22	0	Replace Crossarm rated 4		
23	0	Replace Crossarm rated 4		
25	0		Crossarm rated 3	
26	0	Replace Crossarm rated 4	Right pole, rated 3, checking (3)	
27	0	Replace Crossarm rated 4	Right pole, rated 2, checking (3)	
28	0		Crossarm rated 3	
29	0	Replace Crossarm rated 4 Structure leaning, install side guys		
30	0		Crossarm rated 3	
31	0		Crossarm rated 3	
34	0		Right pole, rated 3, external decay (3), checking (3)	
46	0		Right pole, rated 3, no reason	
47	0	Remove 10-15 danger trees on each side of right of way		
48	0	Remove numerous danger trees on both sides of ROW		

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
49	0	Remove numerous danger trees on both sides of ROW	Left pole, rated 2, checking (4) Right pole, rated 2, checking (3)	
50	0	Remove numerous danger trees on both sides of ROW		
51	0	Remove numerous danger trees on both sides of ROW		
52	0	Remove numerous danger trees on both sides of ROW		
53	0	Remove numerous danger trees on both sides of ROW		
54	0	Remove numerous danger trees on both sides of ROW		
55	0	Remove numerous danger trees on both sides of ROW		
61	0	Replace crossarm rated 4	Right pole, rated 3, no reason	
62	0		Crossarm rated 3 (checks)	
63	0		Crossarm rated 3	
64	0	Remove numerous danger trees on both sides of ROW		
65	0	Remove numerous danger trees on both sides of ROW	Crossarm rated 3	
67	0	Remove numerous danger trees on both sides of ROW	Crossarm rated 3	
68	0	Remove numerous danger trees on both sides of ROW		
69	0	Remove numerous danger trees on both sides of ROW	Crossarm rated 3	
70	0	Remove numerous danger trees on both sides of ROW	Crossarm rated 3	
71	0		Crossarm rated 3	
72	0		Crossarm rated 3	
74	0	Remove numerous danger trees on both sides of ROW		
75	0	Remove numerous danger trees on both sides of ROW		
76	0	Remove numerous danger trees on both sides of ROW		
77	0	Remove numerous danger trees on both sides of ROW		
78	0	Remove numerous danger trees on both sides of ROW		
79	0	Remove numerous danger trees on both sides of ROW		
80	0	Remove numerous danger trees on both sides of ROW		
81	0	Remove numerous danger trees on both sides of ROW		
84	0	Install guys, structure not plumb		
90	0		Crossarm rated 3	
91	0		Crossarm rated 3	
92	0		Crossarm rated 3	
93	0		Crossarm rated 3	
94	0		Crossarm rated 3	

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
95	0		Crossarm rated 3	
96	0		Crossarm rated 3	
97	0		Crossarm rated 3	
98	0		Crossarm rated 3	
101	0		Crossarm rated 3	
102	0		Crossarm rated 3	
103	0		Crossarm rated 3 Conductor wear (3)	
104	0		Crossarm rated 3	
105	0		Crossarm rated 3	
106	0		Crossarm rated 3	
107	0		Crossarm rated 3	
108	0		Crossarm rated 3	
109	0		Crossarm rated 3	
110	0		Crossarm rated 3	
111	0		Crossarm rated 3	
112	0		Crossarm rated 3	
113	0		Crossarm rated 3	
114	0		Crossarm rated 3	
115	0	Replace left phase suspension clamp Reassess left pole, rated 2, carpenter ants rated as 5, however pole is recorded as solid?	Crossarm rated 3	
116	0		Crossarm rated 3	
119	0		Crossarm rated 3	
123	0	Replace 1 insulator, centre phase		
125	0	Replace Crossarm rated 4 Reassess right pole, rated 2, carpenter ants rated as 5, however pole is recorded as solid?		
126	0	Replace Crossarm rated 4	Structure leaning to source	
127	0		Right pole, rated 3, no reason Left pole, rated 3, no reason	
128	0		Crossarm rated 3	
129	0		Crossarm rated 3	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
		226-1		
11	0	Replace 15 COB Insulators, left phase Replace 14 COB Insulators, centre phase Replace 12 COB Insulators, right phase		
12	0		Pole, rated 2, wood pecker holes (5)	
24	0	Replace 16 COB Insulators, left phase Replace 16 COB Insulators, centre phase Replace 12 COB Insulators, right phase		
27	0	Replace 16 COB Insulators, left phase Replace 16 COB Insulators, centre phase Replace 16 COB Insulators, right phase		
		226-2		
1	0	Install 7 guy guards	Structure leaning to source Crossarm rated 3	
3	0	Repair centre phase for 1 broken strand		
6	0	Install 1 guy guard		
12	0	Tighten centre phase insulator		
14	0	Install 1 guy guard		
17	0	Install 1 guy guard		
18	0	Install 6 guy guards		
19	0	Install 1 guy guard		
24	0		Crossarm not plumb	
32	0	Repair centre phase for 2 broken strands		
34	0	Install 6 guy guards		
		226		
17	0	Install 1 guy guard Tighten slack guys		
18	0	Install 6 guy guards		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
19	0	Install 1 guy guard		
173	0	Repair left phase for 2 broken strands		
194	0	Tighten slack guys Remove new insulators on ground	Pole, rated 2, check penetrates groundline	
197	0	Remove new insulators on ground		
198	0	Remove new insulators on ground		
199	0	Remove old insulators on ground		
200	0	Remove new and old insulators on ground		
207	0	Repair centre phase for 1 broken strand		
209	0	Remove old insulators on ground		
215	0	Remove old insulators on ground		
227	0	Remove old insulators near structure		
235	0	Install 3 guy guards (walking access only)		
259	0	Tighten slack guys		
263	0	Repair right OHGW for 2 broken strands		
271	0	Repair centre phase for 1 broken strand		
273	0		Pole rated 2, shell separation (3)	
274	0	Replace left phase insulator, broken skirt		
291	0	Repair right phase for 1 broken strand		
293	0	Repair left phase for 2 broken strands		
298	0	Tighten all insulators Tighten loose v-brace on crossarm	Structure leaning left	
303	0	Install 1 guy guard		
312	0	Repair right phase for 1 broken strand		
335	0	Replace left phase insulator suspension clamp		
336	0	Tighten centre phase insulator, loose on pin		

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TL 227

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
		Many structures on this line have submerged foundations. No recommendations are made, and they are not tabulated here. Many structures on this line have light to moderate vibration. No recommendations are made at this time, and they are not tabulated here.		
3	0	Tighten loose top pin insulator, centre phase		
6	0		Structure leaning to the right	
12	0	Install 1 guy guard		
14	0		Structure leaning to the left Pole rated 2, wood pecker holes (5)	
15	0	Repair left phase for 1 broken strand	Structure leaning to source Pole rated 2, wood pecker holes (5)	
17	0	Tighten loose top pin insulator, centre phase	Centre phase deadend rated 5, however this is an A structure. Recorded in error?	
20	0	Repair left phase for 1 broken strand Tighten loose top pin insulator, centre phase		
21	0	Repair centre phase for 1 broken strand		
22	0	Tighten loose top pin insulator, centre phase	Structure leaning to the right	
24	0	Repair right phase for 1 broken strand Tighten loose top pin insulator, centre phase		
39	0	Install 1 guy guard		
83	0	Install 2 guy guards		
115	0	Tighten slack guys. Surface rust may mean they have to be replaced		
118	0	Reassess guy grips, report says damaged, however number to replace is 0 Install 2 guy guards		
120	0	Install 2 guy guards		
132	0	Install 1 guy guard		
132	1	Install 1 guy guard		
140	0	Install 1 guy guard		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
141	0	Install 4 guy guards		
146	0	Install 2 guy guards		
146	1	Install 1 guy guard		
149	0	Install 3 guy guards		
149	1	Install 2 guy guards		
164	0	Install 2 guy guards		
225	0	Install 3 guy guards		
228	0	Install 2 guy guards		
229	0	Install 2 guy guards		
230	0	Install 2 guy guards		
231	0	Install 2 guy guards Tighten slack guys		
234	0	Install 1 guy guard		
235	0	Install 3 guy guards		
243	0	Tighten all insulators		
246	0		Structure leaning to source	
252	0	Install 2 guy guards		
261	0		Structure leaning to left Foundation comment – good, but needs repair?	
262	0		Structure leaning to left Foundation comment – good but needs repair?	
267	0	Tighten guys Tighten loose centre phase insulator		
274	0	Install 2 guy guards		
276	0	Install 2 guy guards		
277	0	Install 2 guy guards	Insulators not plumb	
281	0	Tighten slack guys		
285	0	Install 2 guy guards		
286	0	Install 2 guy guards		
287	0	Install 2 guy guards		
288	0	Install 2 guy guards		
289	0	Install 2 guy guards		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
293	0	Replace right phase suspension clamp		
294	0		Crossarm rated 2, bad cracks	
295	0		Crossarm rated 3 (cracks)	
296	0	Install 2 guy guards		
297	0	Install 2 guy guards		
298	0	Install 2 guy guards	Structure leaning left	
300	0		Comment "pole leaning"	
306	0		Crossarm rated 2, split Insulators not plumb	
308	0	Tighten left and right insulators		
312	0		Crossarm rated 3 Insulators not plumb	
333	0	Install 3 guy guards		
340	0	Install 5 guy guards		
349	0	Install 5 guy guards		
351	0	Install 2 guy guards		
357	0	Install 2 guy guards		
358	0	Install 3 guy guards		
359	0	Install 2 guy guards		
360	0	Install 2 guy guards		
361	0	Install 2 guy guards		
362	0	Install 2 guy guards		
364	0	Install 2 guy guards		
365	0	Install 2 guy guards		
366	0	Install 2 guy guards		
367	0	Tighten all insulators		
370	0	Replace crossarm, rated 4		
371	0	Install 2 guy guards		
372	0	Install 2 guy guards		
373	0	Install 2 guy guards		
376	0	Install 2 guy guards		
377	0	Install 2 guy guards		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
378	0	Install 2 guy guards		
379	0	Install 2 guy guards		
380	0	Install 2 guy guards		
381	0	Install 2 guy guards		
382	0	Install 2 guy guards		
384	0	Install 2 guy guards		
387	0	Install 2 guy guards		
389	0	Install 2 guy guards		
390	0	Install 1 guy guard		
399	0	Tighten slack guys		
400	0	Tighten slack guys		
401	0	Tighten slack guys		
403	0		Crossarm rated 3	
405	0	Tighten centre phase insulator		
420	0	Tighten slack guys		
422	0	Install 3 guy guards		
423	0	Install 2 guy guards		
424	0	Install 4 guy guards		
460	0	Install 2 guy guards Tighten slack guys		
466	0		Structure leaning left	
467	0	Tighten centre phase insulator		
474	0		Pole rated 2, shell separation (4)	
480	0		Pole rated 2, check penetrates groundline	
482	0	Tighten left and centre phase insulator		
483	0	Tighten centre phase insulator		
484	0	Install 2 guy guards		
487	0	Install 1 guy guard		
489	0		Insulators not plumb	
490	0	Install 1 guy guard		
491	0	Install 1 guy guard		
492	0	Tighten all insulators		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
494	0	Install 1 guy guard		
498	0		Old insulators on site	
499	0	Remove tree leaning on guy wire Replace 1 corroded guy grip Install 3 guy guard		
509	0	Replace crossarm, rated 3, cracks		
517	0	Replace 1 guy grip Install 1 guy guard Reassess anchor replacement, noted, 2 earth and 2 rock anchors, replace 1 earth and 1 rock?		
519	0	Replace crossarm, rated 4	Pole, rated 3, no reason	
523	0	Tighten loose centre phase insulator		
526	0	Replace crossarm, rated 5 (cracks)		
530	0	Tighten loose centre phase insulator		
537	0	Tighten loose centre phase insulator		
538	0		Pole, rated 3, no reason	
539	0	Reassess pole, comment "replace pole", however pole record indicates a perfect pole, rated 2 Reassess crossarm, comment "replace", rated 3		
540	0	Replace pole, bad split at top pin, rated 3		
542	0	Tighten all insulators	Crossarm rated 3	
543	0	Install 3 guy guards		
545	0		Right phase insulators not plumb	
547	0	Install 2 guy guards		
548	0	Install 2 guy guards		

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
		COB insulators are scheduled for replacement in 2007. Therefore, they will not be listed in this report. Some of this work can be scheduled for replacement during this time. Some work can also be combined (knee braces and crossarms).		
115	0	Replace cross braces and blocking, rated 5 Replace knee braces, rated 5 Repair left OHGW for 1 broken strand?	Crossarm rated 3	
116	0	Install 12 guy guards Repair left phase for 2 broken strands		
117	0		Crossbraces rated 3 Blocking rated 3	
118	0	Replace crossbraces and blocking, rated 4	Right pole, rated 2, checking (4)	
119	0	Replace crossbraces and blocking, rated 4		
120	0	Replace crossbraces and blocking, rated 5	Crossarm rated 3 Kneebraces rated 3	
121	0	Replace crossbraces and blocking, rated 5 Replace kneebraces (3 out of 4 rated 4)		
122	0		Crossarm rated 3 Crossbraces rated 3 Blocking rated 4 Kneebraces rated 3	
123	0	Repair right phase for 1 broken strand Replace kneebraces, rated 4	Crossbraces rated 3 Blocking rated 3	
124	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 4	
125	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
126	0	Install 4 guy guards Replace crossbraces and blocking, rated 4	Crossarm rated 3 Kneebraces rated 3	

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TL 234

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
127	0		Crossarm rated 3 Guy wires and grips noted as "other" with no description Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
128	0		Left pole, rated 2, checking (3) Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
129	0		Blocking rated 3 One Kneebrace rated 3	
130	0	Replace crossbraces and blocking, rated 4	Crossarm rated 3 Right pole, rated 2, checking (3) Kneebraces rated 3	
131	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
132	0	Install 13 guy guards		
133	0	Repair left phase for 2 broken strands Replace crossbraces and blocking, rated 4	Right pole, rated 2, carpenter ants (3) Kneebraces rated 3	
134	0		Kneebraces rated 3	
137	0	Replace crossbraces and blocking, rated 4	Kneebraces rated 3	
138	0	Replace crossbraces and blocking, rated 4	Kneebraces rated 3	
139	0		Right pole, rated 3, no reason provided Knee braces rated 3	
140	0		Kneebraces (left side) rated 3	
141	0		Kneebraces rated 3	
142	0	Install 1 guy guard	Kneebraces rated 3	
143	0		Crossarm rated 3 Crossbraces rated 3 Kneebraces rated 3	

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WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
144	0	Replace left pole, rated 4, internal decay (4) Replace right pole, rated 4, internal decay (4)	Crossarm rated 3 Kneebraces rated 3	
145	0		Kneebraces rated 3	
146	0		Kneebraces rated 3	
147	0		Crossarm rated 3 Crossbraces rated 3 Blocking rated 4 Kneebraces (right side) rated 3	
148	0	Replace crossbraces and blocking, rated 4	Crossarm rated 3 Kneebraces rated 3	
149	0		Crossarm rated 3 Crossbraces rated 3 Blocking rated 3 Kneebraces rated 4	
150	0		Blocking rated 3	
151	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
152	0		Blocking rated 3	
153	0	Reassess crossarm, rated 5, for Other???? No comments		
154	0		Kneebraces rated 3	
155	0		Centre pole rated 2, check penetrates groundline Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
156	0	Install 2 guy guards	Kneebraces rated 3	
157	0	Install 2 guy guards	Kneebraces rated 3	
158	0	Install 4 guy guards	Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	

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TL 234

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
159	0	Reassess left pole, rated 3, 2" shell recorded – Where? , checking (3)	Right pole, rated 2, checking (3) Crossbraces rated 3 Blocking rated 3	
160	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
161	0		Crossarm rated 3 Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
162	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
163	0	Install 4 guy guards	Left pole, rated 3, checking (3) Right pole, rated 3, no reason Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
164	0	Install 8 guy guards	Centre pole, rated 3, no reason Crossbraces rated 3 Blocking rated 3	
165	0	Install 12 guy guards	Crossarm rated 3	
166	0		Centre pole, rated 2, check penetrates groundline Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
167	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	

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TL 234

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
168	0	Install 2 guy guards	Crossarm rated 3 Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
169	0	Install 2 guy guards	Centre pole, rated 2, check penetrates groundline Kneebraces rated 3	
170	0	Install 4 guy guards	Crossbraces rated 3 Blocking rated 3	
171	0	Install 4 guy guards	Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
172	0	Install 6 guy guards Replace right phase damper, bent	Centre pole, rated 2, check penetrates groundline Crossbraces rated 3 Blocking rated 3	
173	0	Install 6 guy guards	Crossarm rated 3 Crossbraces rated 3 Blocking rated 4 Kneebraces rated 3	
174	0	Install 2 guy guards	Crossbraces rated 3 Blocking rated 3	
175	0	Install 2 guy guards	Crossbraces rated 3 Blocking rated 3	
176	0	Install 2 guy guards	Crossarm rated 3 Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
177	0	Install 2 guy guards	Crossbraces rated 3 Blocking rated 3	
178	0	Install 2 guy guards	Left pole, rated 2, carpenter ants (3) Crossbraces rated 3 Blocking rated 3	

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TL 234

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
179	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
180	0		Guy wires noted as “other” with no description Crossbraces rated 3 Blocking rated 3	
181	0	Repair right phase for 3 broken strands Reset centre phase damper Adjust insulator plumbness	Guy wires noted as “other” with no description Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
182	0		Guy wires noted as “other” with no description Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
183	0		Guy wires noted as “other” with no description Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
184	0		Guy wires noted as “other” with no description Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
185	0	Install 2 guy guards	Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
186	0		Guy wires noted as “other” with no description Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
187	0	Replace crossbraces and blocks, rated 4	Crossarm rated 3 Guy wires noted as “other” with no description Kneebraces rated 3	

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TL 234

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
188	0		Crossarm rated 3 Guy wires noted as "other" with no description Crossbraces rated 3 Blocking rated 3	
189	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
190	0		Blocking rated 4	
191	0		Crossbraces rated 3 Blocking rated 4 Kneebraces rated 3	
192	0	Replace centre phase damper, bent	Crossbraces rated 3 Blocking rated 3	
193	0	Install 4 guy guards	Kneebraces rated 3	
195	0		Right pole, rated 2, carpenter ants (3) Kneebraces rated 3	
196	0		Crossarm rated 3 Kneebraces rated 4	
197	0		Right phase insulator not plumb	
199	0		Crossbraces rated 3 Blocking rated 3	
201	0		Kneebraces rated 3	
202	0		Crossbraces rated 3 Blocking rated 3	
203	0		Crossarm rated 3 Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
204	0		Crossbraces rated 3 Blocking rated 3	

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TL 234

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
205	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
206	0		Left pole, rated 2, carpenter ants (3) Crossbraces rated 3 Blocking rated 3	
207	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
208	0		Crossarm rated 3 Kneebraces rated 3	
209	0		Kneebraces (right pole) rated 3	
210	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
211	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
212	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
213	0		Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
214	0		Right pole rated 2, carpenter ants (3) Crossbraces rated 3 Blocking rated 3	
215	0		Blocking rated 3	
216	0		Crossbraces rated 3 Blocking rated 3	
217	0	Install 2 guy guards		

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TL 234

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
218	0		Crossbraces rated 3 Blocking rated 3	
219	0		Kneebraces rated 3	
220	0		Left pole, rated 2, carpenter ants (3) Blocking rated 3 Kneebraces rated 3	
221	0		Kneebraces rated 3	
222	0		Crossarm rated 3 Crossbraces rated 3 Blocking rated 3 Kneebraces rated 3	
223	0		Guy wires noted as “other” with no description Kneebraces rated 3	
224	0		Kneebraces rated 3	
226	0		Crossbraces rated 3 Blocking rated 3	
227	0		Kneebraces rated 3	
228	0		Left pole, rated 3, internal decay (3), solid?? Kneebraces rated 3	
229	0		Right pole, rated 2, carpenter ants (3) Kneebraces rated 3	
231	0		Kneebraces rated 3	
232	0		Centre pole, rated 3, no reason	

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TL 240

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
		Repairs on TL 240 depend largely on having the line out of service. No repairs listed here warrant taking the line out of service, however, some (as noted) should be performed if the opportunity arises		
1192	0	<i>Possible repair pending outage schedule</i>	Repair centre phase for 1 broken strand	
1195	0		Left pole, rated 3, no reason provided	
1204	0		Right pole, rated 3, no reason provided	
1214	0	<i>Possible replacement pending outage schedule</i>	Guy wires and grips noted as "other" with no description Right pole, rated 4, internal decay (4) (but still solid???)	
1238	0	<i>Possible replacement pending outage schedule</i>	Broken insulator, centre phase	
1239	0		Guy wires and grips noted as "other" with no description	
1245	0		Guy wires and grips noted as "other" with no description	
1246	0		Left pole, rated 2, wood pecker holes (3)	
1247	0		Guy wires and grips noted as "other" with no description	
1257	0		Guy wires and grips noted as "other" with no description	
1267	0		Right pole, rated 3, wood pecker holes (3)	
1275	0		Right pole, rated 3, wood pecker holes (3)	
1276	0		Right pole, rated 2, wood pecker holes (3)	
1281	0	<i>Possible replacement pending outage schedule</i>	Crossbrace cracked at centre bolt	
1287	0	<i>Possible repair pending outage schedule</i>	Right phase insulator hardware cotter pin almost out	
1291	0		Guy wires and grips noted as "other" with no description	
1296	0		Guy wires and grips noted as "other" with no description	
1297	0		Guy wires and grips noted as "other" with no description	
1298	0		Guy wires and grips noted as "other" with no description	

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TL 241

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
320	0		Left and centre phase ball link eye bolts at 30-40% wear	
321	0		Left pole, rated 2, internal decay (3)	
322	0	Tighten loose b plates – all phases		
323	0	Repair left phase for 1 broken strand		
328	0		Guy wires and guy grips recorded as “other”	
329	0		Centre phase ball link eye bolts at 40% wear	
331	0		All ball link eye bolts worn 20-40%	
332	0		All ball link eye bolts worn 35-40%	
333	0	Repair centre phase for 1 broken strand	Left phase conductor rated 3	
337	0	Repair left phase for 2 broken strands	Structure leaning to source Insulators not plumb	
338	0		Right pole, rated 3, internal decay (3), external decay (3), shell separation (3), ASSUMPTION: 0.5” SHELL ERRONOUSLY RECORDED AS SHELL THICKNESS, BUT IS ACTUALLY SHELL SEPARATION AMOUNT	
339	0		Left pole, rated 2, wood pecker holes (5)	
341	0	Repair right phase for 1 broken strand		
343	0		Structure leaning to source Insulators not plumb Left pole, rated 3, wood pecker holes (4)	
344	0		Left pole, rated 3, shell (3) – (40’), ASSUMPTION: 1.0” SHELL ERRONOUSLY RECORDED AS SHELL THICKNESS, BUT IS ACTUALLY SHELL SEPARATION AMOUNT	

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TL 241

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
345	0		Crossarm rated 3 Crossbrace rated 3 Left pole, rated 3, internal decay (3), external decay (3), shell separation (3) – (30'), 2" shell (NO LOCATION RECORDED) Right pole, rated 3, internal decay (3), external decay (3), shell separation (3) – (30'), 2" shell (NO LOCATION RECORDED)	
347	0		Right pole, rated 2, carpenter ants (5), POLE STILL RECORDED AS SOLID?	
348	0	Retighten slack guys		
349	0	Side guy anchors installed – install the guys Tighten slack guys	All ball link eye bolts worn 40%	
357	0	Tighten slack guy wires		
358	0	Tighten slack guy wires		
360	0	Tighten slack guy wires		
361	0	Tighten slack guy wires	Left pole, rated 2, shell separation (3), ASSUMPTION: 1.5" SHELL ERRONOUSLY RECORDED AS SHELL THICKNESS, BUT IS ACTUALLY SHELL SEPARATION AMOUNT	
363	0	Tighten slack guy wires Repair left phase for 1 broken strand		
364	0		Left pole, rated 2, wood pecker holes (3)	
365	0	Replace ball link eye bolts, worn up to 55%		
366	0	Tighten slack guy wires		
367	0		All ball link eye bolts worn 30-40%	
369	0	Repair right phase for 1 broken strand Tighten blocking	All ball link eye bolts worn 30%	
371	0	Tighten slack guy wires		
375	0	Tighten loose ball link eye bolts		
376	0	Tighten loose b plates – all phases		
378	0		Light vibration noted	

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TL 241
WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
387	0		All ball link eye bolts worn 30-45%	
392	0	Install 4 guy guards	Light vibration noted	
393	0	Install 4 guy guards	Light vibration noted	
394	0	Install 4 guy guards	Light vibration noted	
395	0		Light vibration noted	
396	0		Light vibration noted	

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TL 243

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
1	0	Install 16 guy guards		
2	0	Install guy bonding		
3	0	Install guy bonding		
4	0	Install guy bonding		
5	0	Install guy bonding		
6	0	Install guy bonding		
7	0	Install guy bonding	Right pole, rated 2, shell separation (3), external decay (3), "shell separation top to bottom"	
8	0	Install 14 guy guards		
27	0	Install 6 guy guards		
33	0	Tighten slack guys		
34	0		Left pole, rated 2, check penetrates groundline	
35	0		Right pole, rated 2, "hollow through hardware" (SHOULD THIS POLE BE RATED HIGHER???)	
36	0	Install 6 guy guards	Centre pole, rated 3, 2.5" shell in one location, internal decay (3), shell separation (3) – (45'), installed 1986!	
39	0		Structure leaning to source	
43	0	Install 12 guy guards		
44	0		Left pole, rated 2, shell separation (3)	
45	0	Install 6 guy guards Replace right pole, rated 4, internal decay (4), hollow near hardware		
46	0	Tighten slack guys		
47	0	Tighten slack guys		
50	0	Install 4 guy guards		
53	0	Install 12 guy guards	Centre pole, rated 2, wood pecker holes (3) Right pole, rated 2, wood pecker holes (3)	
58	0	Install 6 guy guards		
63	0	Install 4 guy guards		
64	0	Install 4 guy guards		
68	0	Install 4 guy guards		

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TL 243

WPLM Recommended Action Report

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
72	0	Repair left phase for one broken strand Repair left OHGW for one broken strand	Right phase hardware rated 3	
73	0	Replace centre pole, rated 4, internal decay (4), rotten at deadend		

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
32	0		Crossarm plates not double nutted Light vibration noted Right pole, rated 3, no reason provided	
118	0	Repair left phase for 3 broken strands	Light vibration noted	
119	0		Blocking rated 3	
130	0		Guy wires and grips noted as "other" with no description	
132	0		Guy wires and grips noted as "other" with no description	
140	0		COMMENT "pole rotten around the crossarm" and "pole rotten around top and bottom x-brace" however, NO POLE REPORTS INDICATE THESE DEFECTS	
141	0	Install 2 guy guards		
142	0	Install 2 guy guards		
148	0		Guy wires and grips noted as "other" with no description	
149	0		Guy wires and grips noted as "other" with no description	
150	0		Guy wires and grips noted as "other" with no description Right pole, rated 2, check penetrates groundline	
151	0		Guy wires and grips noted as "other" with no description	
152	0		Guy wires and grips noted as "other" with no description	
153	0		Guy wires and grips noted as "other" with no description	
154	0	Install 4 guy guards		
155	0		Guy wires and grips noted as "other" with no description	
156	0		Guy wires and grips noted as "other" with no description	
157	0	Reassess right pole, rated 4, wood pecker holes (4), provide photos of damage severity and location	Guy wires and grips noted as "other" with no description	
158	0		Guy wires and grips noted as "other" with no description	
159	0		Guy wires and grips noted as "other" with no description	
161	0	Tighten crossbrace bolt		
162	0		Right pole, rated 2, 5" shell somewhere but not noted, shell separation (3) – (5')	
163	0	Install 12 guy guards		
164	0		Guy wires and grips noted as "other" with no description	
167	0	Replace right pole, rated 4, rotten around bottom x-brace	Guy wires and grips noted as "other" with no description	
168	0		Guy wires and grips noted as "other" with no description	

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
169	0		Guy wires and grips noted as "other" with no description	
170	0		Guy wires and grips noted as "other" with no description	
171	0		Guy wires and grips noted as "other" with no description	
173	0		Guy wires and grips noted as "other" with no description	
174	0		Guy wires and grips noted as "other" with no description	
175	0	Replace centre phase suspension clamp	Guy wires and grips noted as "other" with no description	
176	0	Install 6 guy guards Reassess left pole, rated 4, no defects recorded		
177	0	Reassess left pole, rated 4, internal decay (3)	"b plates not double nutted" – WHAT DOES THIS MEAN???)	
178	0		Left pole rated 2, external decay (3) Right pole, rated 2, shell separation (3)	
181	0	Reassess left pole, rated 3, internal decay (3), rot pocket (1" to 5" shell) – details on location of rot pocket should be provided	Guy wires and grips noted as "other" with no description	
188	0		Guy wires and grips noted as "other" with no description	
189	0		Guy wires and grips noted as "other" with no description	
190	0	Replace crossarm, rated 5, rot Replace right pole, rated 5, internal decay (5), POLE IS NOTED AS STILL SOLID, EVEN WITH AN INTERNAL DECAY OF 5!!!	Guy wires and grips noted as "other" with no description	
191	0		Guy wires and grips noted as "other" with no description	
192	0		Guy wires and grips noted as "other" with no description	
193	0		Guy wires and grips noted as "other" with no description	
194	0	Repair left phase for one broken strand		
196	0		Guy wires and grips noted as "other" with no description	
197	0		Guy wires and grips noted as "other" with no description	
198	0		Guy wires and grips noted as "other" with no description	
199	0	Verify COB insulators on all phases. If so, replace all	Guy wires and grips noted as "other" with no description	
200	0	Verify COB insulators on all phases. If so, replace all	Guy wires and grips noted as "other" with no description	
201	0	Verify COB insulators on all phases. If so, replace all	Guy wires and grips noted as "other" with no description	
202	0	Verify COB insulators on all phases. If so, replace all	Guy wires and grips noted as "other" with no description	
203	0	Replace right pole, rated 4, rotten at top x-brace		

Str	Suf.	Recommended Action		
		Required	Monitor	No Action
204	0		Guy wires and grips noted as "other" with no description	
205	0		Guy wires and grips noted as "other" with no description	
206	0		Guy wires and grips noted as "other" with no description Right pole, rated 2, check penetrates ground line	
209	0		All deadend hardware rated 3	
212	0		Guy wires and grips noted as "other" with no description	
213	0		Guy wires and grips noted as "other" with no description	
214	0	Repair left phase for two broken strands Replace left pole, rated 4, internal decay (4), shell separation (3) – (50')	Guy wires and grips noted as "other" with no description	
215	0	Repair right phase for 1 broken strand Install 4 guy guards		
219	0		RIGHT PHASE DEADEND RATED 5, HOWEVER THIS STRUCTURE IS AN "A"	
222	0		Light vibration noted Left pole, rated 3, wood pecker holes (3), internal decay (3), shell separation (3) Right pole, rated 3, wood pecker holes (3)	
225	0		Guy wires and grips noted as "other" with no description	
226	0		Guy wires and grips noted as "other" with no description	
227	0		Guy wires and grips noted as "other" with no description	
228	0	Repair left phase for 1 broken strand		
232	0	Repair centre phase for 1 broken strand	Guy wires and grips noted as "other" with no description	
234	0		Guy wires and grips noted as "other" with no description	
235	0		Guy wires and grips noted as "other" with no description	
238	0		Right phase insulators not plumb	
240	0	Reassess left pole, rated 2, 2" shell indicated, however no location recorded, shell separation (3)		