APPENDIX B

PRIORITY CHARTS

1- Inspection and Maintenance Overview Time Frame

Priority	Time Frame	Underground	Overhead and Pad-Mounted Equipment	Wood Poles	Wood Pole-Related Public Level Communication Level Power Line Level
1	**Immediate** - Start corrective action to eliminate hazardous condition.	Start corrective action process.	Start corrective action process.	Start corrective action process.	Start corrective action process.
2	**Urgent Condition -** Has potential to develop into a hazardous condition. Failure/interruption probable, but there is time to plan corrective action.	Corrective action within 90 days.	Corrective action within 90 days.	Corrective action within 90 days.	Corrective action within 90 days. Separate criteria for Public, Communications and Power Line Levels.
3	**Advanced Degradation -** Corrective action required early in inspection cycle.	Corrective action within 12 months.	Corrective action within 12 months.	Corrective action within 12 months.	Corrective action within 12 months. Separate criteria for Public, Communications and Power Line.
4	**Moderate Degradation -** Corrective action required before the end of the inspection cycle.	Corrective action within 3 years.	Corrective action within 3 years.	Corrective action within 3 years.	Corrective action within 3 years. Separate criteria for Public, Communications and Power Line.
5	**Safe and Reliable -** No action needed	Next inspection interval.	Next inspection interval.	Next inspection interval.	Next inspection interval.

2-Non-Visual Typical Discrepancies of Overhead Wood Poles

Priority	Time Frame/Action	Decay pocket (GL or BGL) - Shell thickness at weakest point	Exterior Shell Rot (GL or BGL) - Depth of rot
1	**Immediate** - replace pole.	Exposed pocket, with < 0.5" shell on average at FL, causing unstable structure. Failure imminent.	Exterior shell rot causing unstable structure. Failure imminent.
2	**Urgent Condition -** replace within 90 days.	Shell ≤ 1.0" and GLCir. = 24" to 50" Shell ≤ 1.5" and GLCir. = 51" to 61" Shell ≤ 2.0" and GLCir. = 62" to higher	Depth > 1.0" GLCir. = 24" to 38" Depth > 1.5" GLCir. = 39" to 50" Depth > 1.75" GLCir. = 51" to 61" Depth > 2.0" GLCir. = 62" to higher
3	**Advanced Degradation -** Replace within 1 year.	Shell 1.0" to 1.5" GLCir. = 24" to 50" Shell 1.5" to 2.0" GLCir. = 51" to 61" Shell 2.0" to 2.5" GLCir. = 62" to higher	Depth 0.75" to 1.0" GLCir. = 24" to 38" Depth 1.0" to 1.5" GLCir. = 39" to 50" Depth 1.5" to 1.75" GLCir. = 51" to 61" Depth 1.75" to 2.5" GLCir. = 62" to higher
4	**Moderate Degradation -** Replace within 3 years.	Shell > 1.5" to 4.5" GLCir. = 24" to 38" Shell > 1.5" to 5.0" GLCir. = 39" to 50" Shell > 2.0" to 6.0" GLCir. = 51" to 61" Shell > 2.5" to 7.0" GLCir. = 62" to higher Replace if void at 96" AGL.	Depth 0.5" to 0.75" GLCir. = 24" to 38" Depth 0.75" to 1.25" GLCir. = 39" to 50" Depth 1.25" to 1.5" GLCir. = 51" to 61" Depth 1.5" to 1.75" GLCir. = 62" to higher
	Repair within 3 years.	Repair if **no** void at 96" AGL.	Depth 0.25" to 0.5" GLCir. = 24" to 38" Depth 0.5" to 0.75" GLCir. = 39" to 50" Depth 0.75" to 1.0" GLCir. = 51" to 61" Depth 1.0" to 1.25" GLCir. = 62" to higher
5	**Safe and Reliable -** No action needed	*No Criteria*	*No Criteria*

Notes:

1. **GL** – Ground Level; **AGL** – Above Ground Level; **BGL** – Below Ground Level
2. **SF** – Safety Factor
3. Shell thickness measured from two borings at GL or BGL, 90 degrees apart.
4. **GLCir.** – Ground Level Pole Circumference

3-Visual Typical Discrepancies of Overhead Wood Poles

Priority	Time Frame/Action	Split or Decay in Pole	Hole/Boring Damage - Animal, Bird or Insect	Exterior Damage - Compression/Fire/Animal/Mechanical	Footing/Set Depth
1	**Immediate** - Correct, replace, or PTR.	Split or decay damage causing unstable structure. Failure imminent - R, PTR.	Hole/boring damage causing unstable structure. Failure imminent - R, PTR.	Exterior damage causing unstable structure. Failure imminent - R, PTR.	Footing/set depth no longer supports pole - C.
2	**Urgent -** Correct, replace, or PTR. Complete within 90 days.	Split or decay allows light through pole - R, PTR. Split or decay at critical attachment; bolt pulling through pole - R, PTR. Exposed decay pocket at GL or BGL where part of the shell is gone - R.	Hole allows light through pole - R, PTR. Hole > 2" diameter and extends past center - R, PTR. Cavity with < 1" shell thickness - R, PTR. Three or more holes > 2" diameter within 18" vertical at **high stress area** - R, PTR.	Compression wood, peeling off > 2" depth - R. Exterior damage > 2" depth and > 1/4 pole circumference (1 quadrant) - R.	Depth in soil > 20% shallow and heavy equipment (Xfmr/long span/2+ circuits, and so forth) - C.
3	**Advanced Degradation -** Correct, SAM[1], or PTR. Complete within 1 year.	Split within 6" of critical attachment; not pulling through - C, R, PTR. Decay within 6" of critical attachment; not pulling through - R, PTR.	Hole > 2" diameter with possible cavity in **high stress area** - SAM, PTR. Three or more holes > 2" diameter within 18" vertical - SAM, PTR. Insect borings or droppings - SAM.	Compression wood, peeling off 1" to 2" depth - SAM. Exterior damage 1" to 2" depth and > 1/4 pole circumference (1 quadrant) - SAM. Cross break - SAM.	Depth in soil > 10% shallow and heavy equipment - C. Leaning > 1' per 10' height with heavy equipment (Xfmr/long span/2+ circuits, and so forth) - C.
4	**Moderate Degradation -** Correct, SAM[1], or re-inspect within 3 years.	Split within 6" of critical attachment, but contained by construction bolt or adequate repair - Re-inspect.	Hole < 2" diameter with cavity - SAM, PTR.	Exterior damage 1" to 2" depth and 2" to 1/4 pole circumference (1 quadrant) - SAM. Extensive top damage > 6" above all critical attachments - C, PTR. Adequate temporary repair - Re-inspect.	Leaning > 1' per 10' height - C. Depth in soil > 10% shallow - C.
5	**Safe and Reliable -** No action needed.	*No Criteria*	*No Criteria*	*No Criteria*	*No Criteria*

Notes:

1. **SAM (Structural Assessment Method)** – To be performed by a specially trained individual; **only** for Priorities 3 and 4, as noted.
2. **PTR (Pole-Top Replacement)** – Only applies if the noted damage is limited to the top five feet of the pole. Certain repairs are not applicable for all PTR situations. PTR requires both (1) **pass intrusive** and (2) **wind load** before actual repair. PTR is a permanent repair.
3. **Critical Attachment** – Examples: guy fixture, X-arm through-bolt, insulator through-bolt, or equipment through-bolt.
4. **High Stress Area** – Ex: For poles with guy, at guy attachment; for other distribution poles, GL up to 5 feet; for H-frame poles, at “X”-brace attachments.
5. **R** = Replace; **C** = Correct.

4-Overhead Pole-Related Typical Discrepancies

Priority	Time Frame/Action	Public Level - Up to Inspector's reach	Communications Level - Cable, phone	Power Line Level - Above communications level
1	**Immediate** - Start corrective action.	Riser and cable damage. Guys/Anchor Rods - BMW, pole leaning, public hazard. Guy guard - BMW, high public traffic.[3] Ground wire exposed.[3]	*No Criteria*	Major equipment bracket - BMW. Insulator or pin - BMW.
2	**Urgent Condition -** But there is time to plan. Correct within 90 days.	Guys/Anchor rods - BMW, pole not leaning. Riser - BMW, uncoupled/gap, cable exposed, no damage. Guy guard - BMW, low public traffic.[3] Visibility strip - BMW.[3] Illegal attachments. Loose/missing riser strap.[3] Uncapped COV riser sweep.[3]	Climbing space obstruction caused by COV - no bucket truck access. Climbing space obstruction caused by others - safety hazard to employee.[5]	Animal/bird's nest near circuitry/equipment. Braces - BMW. Tie Wire - CDL, BMW. Tap - BMW. Pole switch mechanism - BMW.
3	**Advanced Degradation -** Repair or replace required within 12 months.	Ground wire - BMW discontinuous and not exposed. Riser - major damage, cable not exposed.	Riser - CDL, conductor exposed. Ground wire - BMW.	Riser - BMW and conductor exposed. Insulator or pin - CDL. Ground wire - BMW. Primary side tie insulator touching arm. Pole switch mechanism - CDL, but can be operated.
4	**Moderate Degradation -** Repair, re-inspect or replace, required within 3 years.	Guy wires - CDL. Riser - CDL, coupling missing or broken and no gap, cable not exposed. Guy Guard - BMW at remote and inaccessible site.	Communications clearance to power line. Pole steps - BMW, CDL. Riser - separating from pole. Riser - CDL and cable not exposed. Ground wire exposed. Riser strap loose, uncoupled/gap. Climbing space obstruction.[4] Growth - ivy/vines on climb-only pole.	Equipment bracket/braces - CDL. Primary side tie insulator wood pin protruding > 1"; insulator not touching arm. Span guy - CDL. "High Voltage" signs - CDL, BMW causing illegibility. Idle hardware (bolts, racks, and so forth). Riser- CDL and cable not exposed. Bond wire - CDL. Ground wire exposed. Primary top tie or secondary insulator touching arm. Pole steps - CDL, BMW. Under arm conduit BMW, CDL. Climbing space obstruction.
5	**O Safe and Reliable -** No action needed	*No Criteria*	*No Criteria*	*No Criteria*

Notes:

1. **CDL** - Cracked/Damaged/Loose. **Performs functions,** may be repairable.
2. **BMW -** Broken/Missing/Worn-out. **Does not perform function** and requires replacement/repair.
3. **Inspector Correctable (IC) items** are to be repaired as part of Detail Inspection.
4. Climbing space obstruction caused by COV - bucket truck access pole.

5- Wood Crossarms Typical Discrepancies

Priority	Time Frame/Action	Bowed/Fracture/Canting	Split/Insect/Decay Damage (SIDD)	Burning/Tracking (Electrical)
1	**Immediate** - Start corrective action.	Complete fracture. Partial fracture causes > 5" deflection. Primary bowed > 5" and splintering. Canting - through-bolt pulled out.	SSID at through-bolt, arm has moved. SIDD at insulator pin/bolt and pin/bolt ready to separate from arm.	X-arm tracking - cross section missing > 50%.
2	**Urgent Condition -** But there is time to plan. Correct within 90 days.	Partial fracture causes < 5" deflection. Primary bowed > 5", no splintering. Secondary bowed > 5" and splintering. Canting - through-bolt pulling out.	SIDD at through-bolt, arm has not moved. SIDD at attachment, or insulator pin/bolt and pin/bolt pulling through. If multiple X-arm and bolt at SIDD has pulled through one of two arms.	X-arm tracking - cross section missing between 25% to 50%.
3	**Advanced Degradation -** Repair or replace required within 1 year.	Secondary bowed > 5", no splintering.	SIDD at attachment hole or insulator pin/bolt - bolts not pulling through. SIDD within 2" of attachment or insulator pin/bolt hole. If multiple X-arm and bolt at SIDD has not pulled through either arm. No damage on second arm.	X-arm tracking - cross section missing up to 25%.
4	**Moderate Degradation -** Repair or replace required within 3 years.	*No Criteria*	SIDD, but not within 2" of attachment or insulator pin/bolt holes. Split at bolt/pin, but contained by construction bolt, or adequate repair.	*No Criteria*
5	**Safe and Reliable -** No action needed	*No Criteria*	*No Criteria*	*No Criteria*

Notes:

1. SIDD – Split and/or insect and/or decay damage.
2. Decay can include various kinds of rot and/or fungi.
3. Insects can include various kinds of termites, carpenter ants, and carpenter bees.

6- Streetlights (SL-1) – Typical Discrepancies

Priority	Time Frame/Action	Luminaire	Structure - Non-Wood Pole, Electrolier, Mast Arm
1	**Immediate** - Start corrective action.	Broken glass ready to fall. Fixture or fixture door ready to fall.	Structural/mechanical failure. Vehicle hit pole. Access plate on pole missing - conductor exposed.
2	**Urgent Condition -** But there is time to plan. Correct within 90 days.	Fixture door/cover missing. Fixture - visible cracks. Broken/missing glass - no hazard. Streetlight out (SLO)[2].	Mast arm weak and unsecured. Pole mechanical damage and may fail soon. Anchor bolts missing/rusted through. Large, multiple holes.
3	**Advanced Degradation -** Repair or replace required within 1 year.	*No Criteria*	Bolt covers corroded, irremovable. Anchor bolts corroded, irremovable. Small holes. Unauthorized attachments.
4	**Moderate Degradation -** Repair or replace required within 3 years.	*No Criteria*	Paint flaking, rust. Base metal showing through.
5	**Safe and Reliable -** No action needed	*No Criteria*	Light graffiti. Paint chalking, faded.

Notes:

1. Do not report bullet hole damage unless it causes other discrepancies described above.
2. Streetlight out (SLO) caused by bulb/cell/simple repair corrected in five working days. SLO source feed repairs in 17 working days.

7- Overhead Conductors – Typical Discrepancies

Priority	Time Frame/Action	Primary Voltage Conductors	Secondary Voltage Conductors	Service Drop
1	**Immediate** - Start corrective action.	Conductor in contact with other conductors or where contact is imminent. Metal debris. Vegetation arcing or heavy contact.	Conductor - extreme safety hazard to public, such as public level reachable, wire down, bare wires touching anything, wires touching each other at bare spots.	Drop > 15% reduction in vertical clearance. Drop bare > 10% reduction in vertical clearance. Drop bare and arcing.
2	**Urgent Condition -** But there is time to plan. Correct within 90 days.	Overhead lines not in good repair, such as one-third of strands BMW. Conductor > 10% reduction in radial or vertical clearance. Ivy/vines or vegetation < 18" from energized conductors. Growth on climb-only pole causing inability to operate and access primary devices/equipment. Trees < 4' in HFA.	Conductor > 10% reduction in vertical clearance.	Drop > 10% but < 15% reduction in vertical clearance. Bare drop < 10% reduction in vertical clearance. Bare drop in tree.
3	**Advanced Degradation -** Repair or replace required within 1 year.	Conductor - uneven sag in high wind area; foreign material in line. Growth on pole > 18" and < 48" from energized conductors.	Conductor - bare in rack construction and through tree. Conductor - tree condition causing significant strain or abrasion with visible damage. Conductor < radial clearance with contact. Any growth on pole within secondary level.	Drop < radial clearance with contact. Drop - tree condition causing significant strain or abrasion with visible damage. Bare drop.[3] Drop connector bare at weatherhead.[4]
4	**Moderate Degradation -** Repair or replace required within 3 years.	Conductor - uneven sag and not in high wind areas.	Conductor - bare in rack construction. Conductor < vertical clearance (up to 10% reduction). Conductor - tree condition causing strain or abrasion Conductor < radial clearance - no contact.	Drop< vertical clearance (up to 10% reduction). Drop - tree condition causing strain or abrasion. Drop < radial clearance - no contact.
5	**Safe and Reliable -** No action needed	*No Criteria*	*No Criteria*	*No Criteria*

Notes:

1. **BMW -** Broken/Missing/Worn-out. **Does not perform function,** needs to be repaired.
2. Clearance or Height- In all cases, clearance or height means G.O. 95 rule minimum values.
3. Replace bare service drop within 12 months.
4. Correct bare weatherhead connector within 12 months.

8-Overhead fault Indicators – Typical Discrepancies

Priority	Time Frame/Action	Age	Functionality	Integrity
1	**Immediate** - Start corrective action.	*No Criteria*	*No Criteria*	*No Criteria*
2	**Urgent Condition -** But there is time to plan. Correct within 90 days.	Age of unit is 20 years or more.	Unit has malfunctioned or has failed to operate when tested.	Visible damage that has caused a malfunction under test.
3	**Advanced Degradation -** Repair or replace required within 1 year.	*No Criteria*	*No Criteria*	*No Criteria*
4	**Moderate Degradation -** Repair or replace required within 3 years.	*No Criteria*	*No Criteria*	*No Criteria*
5	**Safe and Reliable -** No action needed.	*No Criteria*	*No Criteria*	*No Criteria*

Notes:

1. Planned replacement cycle for OH Fault Indicators is 20 years.
2. OH Fault Indicators are to be replaced on a program basis. These inspections should only identify Fault Indicators that have passed their 20-year life and were not replaced by the program.

9-Arresters and Fuses – Typical Discrepancies

Priority	Time Frame/Action	Arresters	OH Fuses	UG Fuses
1	**Immediate** - Start corrective action.	Failure with visible risk of interruption and/or reduced clearance.	Any fuse operation.	Any fuse operation.
2	**Urgent Condition -** But there is time to plan. Correct within 90 days.	Failure with no visible risk of interruption or reduced clearance.	Dry/Low liquid level in liquid fuses.	*No Criteria*
3	**Advanced Degradation -** Replace within 12 months.	Corroded, missing, or broken hardware.	Corroded, missing, or broken hardware. Holder burned or tracking.	Corroded fuseholder or fuse canister. Missing or broken hardware.
4	**Moderate Degradation -** Maintenance required. Repair or replace within 3 years.	If disconnected from circuit, either remove it permanently, or replace it.	*No Criteria*	*No Criteria*
5	**Safe and Reliable -** No action needed.	*No Criteria*	*No Criteria*	*No Criteria*