

DISTRIBUTION LINE INSPECTION CHECKLIST

1. Assessment Criteria

1.1. Repair Priority Code

HIGH	MEDIUM	LOW	
< 30 days	< 12 months	> 12 months	

1.2. Strategic Priority code

Strategic Priority Code	Description			
Α	Compliance/Safety: Work scope required to achieve or maintain compliance with applicable codes and			
	standards for safe operation of facilities and regulatory conformance.			
В	Reliability: Work scope required to achieve or maintain minimum reliability metrics.			
С	Efficiency: Work scope required to improve operating productivity. This includes asset life extension,			
	maintenance cycle offsets, on-line monitoring/diagnostics and asset replacements.			
D	Growth & Sustainability: Maximizing grid capacity and the integration of renewable energy sources.			

1.3. Root Cause Analysis

1.3. Root Cause Analysis	
Vegetation	 Trees in right-of-way Trees out of right-of-v
	Tree contacting line
	Creeping plants
Poles	Broken/rotten pole
	• Leaning pole
Lines and conductors	Clearance issues
	 Lines close to buildings
	o Low sag
	o Long span
	Conductor degradation (multiple splices)
Insulation	Broken insulation
	 Contaminated insulation
	Arcing insulation
Hardware	 Loose guy wire
	Missing guy wire/anchor
Crossarms	Broken/rotten crossarm
Equipment (reclosers,	Leaking equipment
switches, fuses, voltage	Missing arresters
regulators, capacitor bank,	
etc.) and service	
transformers	
Wild life	Crossarm nesting

2. Assessment

2.1. Clearances and Brushing				
Item	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
☐ Improper clearance from roads or other ROWs				
☐ Improper vegetation separation				
☐ Environmental hazards				
Soil contamination				

2.2. Structure and Foundation Condition

Item	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments (% of overall line)
☐ Rust and corrosion in steel poles				
☐ Issues with the pole top, weathering, splinters				
☐ Signs of pole burning or tracking due to lightning or insulator leakage				
☐ Wood pecker holes, bee hives, squirrel nests				
☐ Leaning poles				
☐ Erosion at base of pole				
☐ Poor condition of pole at base or ground level				
☐ Problem with structures supporting gang operated switches, metering equipment, regulators, capacitor banks, etc		t		
☐ Conduits loose, broken or joints veparated				

Item	S&L Report (ves/no)	Repair Priority	Strategic Priority	Comments
□ Defective or missing guy guard				
Loose, corroded or damaged guy wire, or mproperly bonded				
☐ Improper anchor—				
2.4. <u>Grounding</u>				
Item	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments (% of overall line)
→ Violation to standard				
Corroded or defective ground				
☐ Damaged protector				
Rod not properly attached	1 1	e e e e e e e e e e e e e e e e e e e		

 $\hfill\square$ Poor condition, including contamination and

signs of flashing

☐ Improperly aligned

2.6. <u>Hardware</u>					
ltem	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments	
☐ Excess hardware that should be salvaged					
☐ Inadequate spacing, improper grounding, bonding, and other substandard construction features					
☐ Bolts, nuts, washers or lock nuts missing					
□ Loose bolts					
2.7. Conductor Item	S&L Report	Repair	Strategic	Comments	
2.7. <u>Conductor</u>	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments	
2.7. <u>Conductor</u>	and the same of th		- 1	Comments	
2.7. <u>Conductor</u> Item	and the same of th		- 1	Comments	
2.7. Conductor Item Insufficient clearance	and the same of th		- 1	Comments	
2.7. Conductor Item Insufficient clearance Insufficient separation Conductors sagging	and the same of th		- 1	Comments	
2.7. Conductor Item Insufficient clearance Insufficient separation Conductors sagging	and the same of th		- 1	Comments	
2.7. Conductor Item Insufficient clearance Insufficient separation Conductors sagging Conductor insulation damaged or missing	and the same of th		- 1	Comments	

tem	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
☐ Damaged, split, twisted, tilted loose				
Brace damaged or loose				
2.9. Equipment (Transformers, Switches	, Streetlights) S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
Leaking.or sweating				
Abnormal noise				-
Bushings				-
Damaged or missing arrestors				
☐ Damaged or missing wildlife protectors				
Out of alignment				
Broken or loose				
2.10. General Line Assessment			ant.	
General Line Assessment	Add	ditional Comm	ents	
General Line Assessment	Add	ditional Comm	lents	
<u>Scheral Line Assessment</u>	Ado	ditional Comm	ents	
<u>General Line Assessment</u>	Add	ditional Comm	ients	

3. Recommendations

3.1. Stage 1 (Immediate to 1 year):

ltem	Scope of Work	% of overall line	Comments
☐ Vegetation Management	otopo or regin	70 01 00 claim inte	Comments
Grounding			
Anchors gin / missing hardware			
☐ Insulators			
☐ Structural (poles and crossarms)			
☐ Equipment with Visible damage			
☐ Conductor, Splicing and Spans			
☐ Other			
Item	Scope of Work	% of overall line	Comments
	6	04 - 6 11 11	
☐ Voltage conversion		22 21 21 21 21 111 1112	
☐ Line Relocation			
☐ Installation of reclosers, sectionalizers, lateral fuses, fault indicators, etc.			
□ Other			
3.3. General Recommendations			
	Additional C	Comments	

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С	Efficiency: Work scope required to improve operating productivity. This includes asset life extension,
	maintenance cycle offsets, on-line monitoring/diagnostics and asset replacements.
D	Growth & Sustainability: Maximizing grid capacity and the integration of renewable energy sources.

1.3. Health Assessment and Frequency

	1	2	3	4	5
Health	Very Good	Good	Fair	Poor	Very Poor
Frequency	Very Few or None	Somewhat frequent	Moderate	Very Frequent	All

1.4. Procedure to assess Problems - Use App Kaizala; create a chat for the feeder with all inspectors

- Note locations (create pin), add a picture of extremely improper vegetation. Insert comments such as 'heavy', 'moderate', etc.
- Create pins for suggestions where reclosers, fuses, fault indicators, etc. would improve performance. Include a picture.
- Include structures that are an imminent failure and high risk. Include pin and photo.
- Include structure that are an extreme safety risk to the public (pin and photo).

1.5. Root Cause Analysis

Vegetation	Trees in right-of-way
144	Trees out of right-of-way
	Tree contacting line
	Creeping plants
Poles	Broken/rotten pole
	Leaning pole
Lines and conductors	Clearance issues
	 Lines close to buildings
	o Low sag
	o Long span
	 Conductor degradation (multiple splices)
Insulation	Broken insulation
1	Contaminated insulation
State of the second	Arcing insulation
Hardware	Loose guy wire
1 1585 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Missing guy wire/anchor
Crossarms	Broken/rotten crossarm
y ±	Leaning crossarm
	Missing/loose bracket
Equipment (reclosers,	Leaking equipment
switches, fuses, voltage	Missing arresters
regulators, capacitor bank,	• Insulation
etc.) and service transformers	o Broken insulation
a continue to some	o Contaminated insulation
	Arcing insulation
Wild life	Crossarm nesting
	Pole pecking

2. Assessment

2.1. Clearances and Brushing

- Improper ROW clearance

Poor vegetation Management

Environmental hazards

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (ves/no)	Repair Priority	Strategic Priority	Comments	

2.2. Structure and Foundation

- Animal damage
- Poor condition at ground level
- Conductors loose, broken or joints separated.
- Signs of burns or tracking due to lightning or insulator leakage
- Leaning structures
- Rust in steel poles

- Issues with weathering or splinters
- Problems with structures supporting switches, metering equipment, capacitor banks, regulators, etc.

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Priority	

2.3. Anchors

Defective or missing guy

- Loose, corroded or damaged guy
- Improper anchor

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
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2.4. Grounding

- Violation to standard
- Corroded or Defective ground wire
- Damaged protector
- Rod no properly attached

(1-5) (1-5) (yes/no) Priority Priority	Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
		(1-5)	(1-5)	(yes/no)	Priority	Priority	

2.5. Insulation

- Contamination and signs of flashing
- Improper alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.6. <u>Hardware</u>						

- Excess hardware
- Loose hardware

- Inadequate spacing, improper grounding, bonding, etc.
- Missing bolts, nuts, washers or lock nuts

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.7. Conductor

Corrosion

- Insufficient clearance
- Insufficient separation

Damaged or loose ties

- Conductor insulation damaged or missing
- Excessive sagging
- Excessive number of damaged splices

Comments

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic
	(1-5)	(1-5)	(yes/no)	Priority	Priority

2.8. Crossarms

Damaged, split, twisted, tilted, loose



2.9. Equipment (Transformers, Switches, Streetlights)

- Leaking or sweating
- Damaged or missing arrestors
- Broken or loose

- Abnormal noise
 - Damaged or missing wildlife protectors
- **Bushings**
- Out of alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
					,	
2.10. General Line Asses	<u>ssment</u>					
			Additional Co	omments		

3. Recommendations

3.1. Stage 1a (Immediate repair):

Item	Scope of Work	Comments
☐ Grounding		
Anchors / hardware		
☐ Insulators		
☐ Structural (poles and crossarms)		
Conductor, Splicing and Spans		
☐ Other		

3.2. Stage 1b (Short-Term Reliability Improvement):

Item	Scope of Work	Comments
▼Vegetation Management		
☐ Installation of fault indicators.		
☐ Installation of lateral fuses.		
☐ Perform Fusing check		
☐ Other		
3.3. Stage 2 (Long-Term Reliability Imp		
ltem	Scope of Work	Comments
✓ Vegetation Management		
☐ Installation of sectionalizers.		
☐ Installation of reclosers.		
☐ Protection coordination studies.		
☐ Other		
3.4. General Recommendations		
	Additional Comments	

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	maintenance cycle offsets, on-line monitoring/diagnostics and asset replacements.
D	Growth & Sustainability: Maximizing grid capacity and the integration of renewable energy sources.

1.3. Health Assessment and Frequency

	1-2	3-4	5-6	7-8	9-10
Health	Very Good	Good	Fair	Poor	Very Poor
Frequency	Very Few or None	Somewhat frequent	Moderate	Very Frequent	All

1.4. Procedure to assess Problems - Use App Kaizala; create a chat for the feeder with all inspectors

- Note locations (create pin), add a picture of extremely improper vegetation. Insert comments such as 'heavy', 'moderate', etc.
- Create pins for suggestions where reclosers, fuses, fault indicators, etc. would improve performance. Include a picture.
- Include structures that are an imminent failure and high risk. Include pin and photo.
- Include structure that are an extreme safety risk to the public (pin and photo).

1.5. Root Cause Analysis

Vegetation	Trees in right-of-way
	• Trees out of right-of-way
	Tree contacting line
	Creeping plants
Poles	Broken/rotten pole
	• Leaning pole
Lines and conductors	Clearance issues
	Clearance issues Clearance issues Lines close to buildings
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Insulation	Broken insulation
	Contaminated insulation
	Arcing insulation
Hardware	Loose guy wire
	Missing guy wire/anchor
Crossarms	Broken/rotten crossarm
	Leaning crossarm
	Missing/loose bracket
Equipment (reclosers,	Leaking equipment
switches, fuses, voltage	Missing arresters
regulators, capacitor bank,	Insulation
etc.) and service transformers	o Broken insulation
- 170	o Contaminated insulation
	Arcing insulation
Wild life	Crossarm nesting
	Pole pecking

2. Assessment

2.1. Clearances and Brushing

- Improper ROW clearance

- Poor vegetation Management

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.2. Structure and Foundation

- Animal damage
- Poor condition at ground level
- Conductors loose, broken or joints separated.
- Signs of burns or tracking due to lightning or insulator leakage
- Leaning structures
- Rust in steel poles

- Issues with weathering or splinters
- Problems with structures supporting switches, metering equipment, capacitor banks, regulators, etc.

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
D. A. A. Waller and A. C. Control of the Control of						

2.3. Anchors

Defective or missing guy

- Loose, corroded or damaged guy

Improper anchor

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority
					1

2.4. Grounding

- Violation to standard

- General condition of ground wire

ssessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.5. Insulation

- Contamination and signs of flashing
- Improper alignment

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Priority	

2.6. Hardware

Excess hardware

- Inadequate spacing, improper grounding, bonding, etc.
- Missing bolts, nuts, washers or lock nuts

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.7. Conductor

Insufficient clearance

Corrosion

- Insufficient separation
- Damaged or loose ties
- Tree wire insulation damaged or missing
- Excessive sagging
- Excessive number of damaged splices

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2.8. Crossarms

- Damaged, split, twisted, tilted, loose

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
	[

2.9. Equipment (Transformers, Switches, Streetlights)

- Leaking or sweating
- Damaged or missing arrestors
- Broken or loose

- Abnormal noise
- Damaged or missing wildlife protectors
- Bushings
- Out of alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments	

2.10. General Line Assessment

Additional Comments	

3. Recommendations

3.1. Stage 1a (Immediate repair):

Item	Scope of Work	Comments
☐ Grounding		
☐ Anchors / hardware		
nsulators		
☐ Structural (poles and crossarms)		
☐ Conductor, Splicing and Spans		
☐ Other		

3.2. Stage 1b (Short-Term Reliability Improvement):

Item	Scope of Work	Comments
Vegetation Management		COMMENTS
☐ Installation of fault indicators.		
☐ Installation of lateral fuses.		
Perform Fusing check		
□ Other		

3.3. Stage 2 (Long-Term Reliability Improvement):

Item	Scope of Work	Comments
☐ Vegetation Management		Commence
☐ Installation of sectionalizers.		
Anstallation of reclosers.		
☐ Protection coordination studies.		
☐ Other		

3.4. General Recommendations

	Additional Comments
Clearance/Brushing:	
Structure/Foundation:	
Anchors/Guy:	
Grounding:	
Insulators:	
Hardware:	
Conductors:	
Crossarms:	
Equipment:	
Other:	



1. Assessment Criteria

1.1. Repair Priority Code

HIGH	MEDIUM	LOW	
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1.2. Strategic Priority code

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	maintenance cycle offsets, on-line monitoring/diagnostics and asset replacements.				
D Growth & Sustainability: Maximizing grid capacity and the integration of renewable energy sou					

1.3. Health Assessment and Frequency

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1.5. Root Cause Analysis

Vegetation	Trees in right-of-way
	Trees out of right-of-way
	Tree contacting line
	Creeping plants
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	Leaning pole
Lines and conductors	Clearance issues
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	Conductor degradation (multiple splices)
Insulation	Broken insulation
	Contaminated insulation
	Arcing insulation
Hardware	Loose guy wire
- The Street of the Stock of Street, The St	Missing guy wire/anchor
Crossarms	Broken/rotten crossarm
	Leaning crossarm
	Missing/loose bracket
Equipment (reclosers,	Leaking equipment
switches, fuses, voltage	Missing arresters
regulators, capacitor bank,	Insulation
etc.) and service transformers	o Broken insulation
Appears a series of the series	o Contaminated insulation
	Arcing insulation
Wild life	Crossarm nesting
	Pole pecking

2. Assessment

2.1. Clearances and Brushing

Improper ROW clearance

(1-5)

(1-5)

(yes/no)

Priority

Priority

- Improper ROW clearance		- Po	or vegetation Ma	anagement		
Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.2. <u>Structure and Foundation</u>	<u>n</u>					
 Animal damage Poor condition at ground le Conductors loose, broken eseparated. 		or - Le	ons of burns or tra insulator leakage aning structures ast in steel poles		o lightning	 Issues with weathering or splinters Problems with structures supporting switches, metering equipment, capacitor banks, regulators, etc.
Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.3. Anchors						
- Defective or missing guy		- Lo	ose, corroded or	damaged gu	ıy	- Improper anchor
Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.4. Grounding						
- Violation to standard	- Genera	al condition of gr	ound wire			
Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments

2.5. Insulation

- Contamination and signs of flashing
- Improper alignment

2.6. Hardware

- Excess hardware

- Inadequate spacing, improper grounding, bonding, etc.
- Missing bolts, nuts, washers or lock nuts

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.7. Conductor

- Insufficient clearance

Corrosion

Insufficient separation

Damaged or loose ties

- Tree wire insulation damaged or missing
- Excessive sagging
- Excessive number of damaged splices

(1-5) (1-5) (yes/no) Priority Priority

2.8. Crossarms

- Damaged, split, twisted, tilted, loose

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.9. Equipment (Transformers, Switches, Streetlights)

Leaking or sweating

Abnormal noise

- Bushings

Damaged or missing arrestorsBroken or loose

- Damaged or missing wildlife protectors
- Out of alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comm
				·		

2.10. General Line Assessment

4	Additional Comments

3. Recommendations

3.1. Stage 1a (Immediate repair):

Item	Scope of Work	Comments
☐ Grounding		
☐ Anchors / hardware		
☐ Insulators		
Structural (poles and crossarms)		
☐ Conductor, Splicing and Spans		
☐ Other		

3.2. Stage 1b (Short-Term Reliability Improvement):

	Scope of Work	Comments
₩ egetation Management		
☐ Installation of fault indicators.		
☐ Installation of lateral fuses.		
☐ Perform Fusing check		
□ Other		
3.3. Stage 2 (Long-Term Reliability Improv	vement):	
Item	Scope of Work	Comments
Vegetation Management	-	
Anstallation of sectionalizers.		
☐ Installation of reclosers.		
☐ Protection coordination studies.		
☐ Other		
3.4. <u>General Recommendations</u>	Additional Comments	
Clearance/Brushing:	Additional Comments	
Structure/Foundation:		
Anchors/Guy:		4
Grounding:		
Insulators:		
Hardware:		
Conductors:		
Crossarms:		
Equipment:		
Other:		manufacture and agreement agreement and agreement agreement and agreement agreement and agreement agreement agreement agreement agreement agreement and agreement

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- Include structure that are an extreme safety risk to the public (pin and photo).

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vegetation	
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	Creeping plants
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	Leaning pole
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switches, fuses, voltage	Missing arresters
regulators, capacitor bank,	• Insulation
etc.) and service transformers	o Broken insulation
	o Contaminated insulation
	Arcing insulation
Wild life	Crossarm nesting
	Pole pecking
	1

2. Assessment

2.1. Clearances and Brushing

Improper ROW clearance

Poor vegetation Management

Environmental hazards

S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
	(yes/no)	(yes/no) Priority	(yes/no) Priority Priority

2.2. Structure and Foundation

- Animal damage
- Poor condition at ground level
- Conductors loose, broken or joints separated.
- Signs of burns or tracking due to lightning or insulator leakage
- Leaning structures
- Rust in steel poles

- Issues with weathering or splinters
- Problems with structures supporting switches, metering equipment, capacitor banks, regulators, etc.

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.3. Anchors						

Defective or missing guy

Loose, corroded or damaged guy

Improper anchor

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.4. Grounding

Violation to standard

Corroded or Defective ground wire

Damaged protector

Rod no properly attached

Violation to Standard	0					
Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.5. Insulation

- Contamination and signs of flashing
- Improper alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.6. <u>Hardware</u>						

- Excess hardware
- Loose hardware

- Inadequate spacing, improper grounding, bonding, etc.
- Missing bolts, nuts, washers or lock nuts

	501	name, etc.		
Assessment (good, fair, poor)	Health Frequency (1-5)	S&L Report Repair (yes/no) Priority	Strategic Priority	Comments
2.7. Conductor - Insufficient clearance	- Insufficient separation	- Conductor insula	tion damaged	- Excessive sagging
- Corrosion	- Damaged or loose ties	or missing	non damaged	- Excessive number of damaged splices
Assessment (good, fair, poor)	Health Frequency (1-5) (1-5)	S&L Report Repair (yes/no) Priority	Strategic Priority	Comments

2.8. Crossarms

- Damaged, split, twisted, tilted, loose

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
		10				

2.9. Equipment (Transformers, Switches, Streetlights)

- Leaking or sweating
- Damaged or missing arrestors
- Broken or loose

- Abnormal noise
- Damaged or missing wildlife protectors
- Bushings
- Out of alignment

Assessment (good, fair, poor) Health Frequency (1-5) (1-5) S&L Report Repair Strategic Comments (yes/no) Priority

2.10. General Line Assessment

Additional Comments	

3. Recommendations

3.1. Stage 1a (Immediate repair):

Item	Scope of Work	Comments
☐ Grounding		
☐ Anchors / hardware		
☐ Insulators		
☐ Structural (poles and crossarms)		
☐ Conductor, Splicing and Spans		
☑ Other		

3.2. Stage 1b (Short-Term Reliability Improvement):

Item	Scope of Work	Comments
☐ Vegetation Management	Coope of Work	
☐ Installation of fault indicators.	- An experience of the control of th	
☐ Installation of lateral fuses.		
☐ Perform Fusing check		
☐ Other		
3.3. Stage 2 (Long-Term Reliability Impr	ovement):	
Item	Scope of Work	Comments
☐ Vegetation Management		
☐ Installation of sectionalizers.		
☐ Installation of reclosers.		
☐ Protection coordination studies.		
™ Other		
3.4. <u>General Recommendations</u>		
	Additional Comments	

DISTRIBUTION LINE INSPECTION CHECKLIST

1. Assessment Criteria

1.1. Repair Priority Code

HIGH	MEDIUM	LOW		
< 30 days	< 12 months	> 12 months		

1.2. Strategic Priority code

Strategic Priority Code	Description
A	Compliance/Safety: Work scope required to achieve or maintain compliance with applicable codes and
	standards for safe operation of facilities and regulatory conformance.
В	Reliability: Work scope required to achieve or maintain minimum reliability metrics.
C	Efficiency: Work scope required to improve operating productivity. This includes asset life extension,
	maintenance cycle offsets, on-line monitoring/diagnostics and asset replacements.
D	Growth & Sustainability: Maximizing grid capacity and the integration of renewable energy sources.

1.3. Health Assessment and Frequency

	1	2	3	4	5
Health	Very Good	Good	Fair	Poor	Very Poor
		Somewhat frequent	Moderate	Very Frequent	All
Frequency	Very Few or None	30illewildt liedacite			

1.4. Procedure to assess Problems – Use App Kaizala; create a chat for the feeder with all inspectors

- Note locations (create pin), add a picture of extremely improper vegetation. Insert comments such as 'heavy', 'moderate', etc.
- Create pins for suggestions where reclosers, fuses, fault indicators, etc. would improve performance. Include a picture.
- Include structures that are an imminent failure and high risk. Include pin and photo.
- Include structure that are an extreme safety risk to the public (pin and photo).

1.5. Root Cause Analysis

Trees in right-of-way			
Trees out of right-of-way			
Tree contacting line			
Creeping plants			
Broken/rotten pole			
Leaning pole			
Clearance issues			
o Lines close to buildings			
o Low sag			
o Long span			
Conductor degradation (multiple splices)			
Broken insulation			
Contaminated insulation			
Arcing insulation			
Loose guy wire			
Missing guy wire/anchor			
Broken/rotten crossarm			
Leaning crossarm			
Missing/loose bracket			
Leaking equipment			
Missing arresters			
nsulation			
o Broken insulation			
o Contaminated insulation			
Arcing insulation			
Crossarm nesting			
Pole pecking			

2. Assessment

2.1. Clearances and Brushing

- Improper ROW clearance

Poor vegetation Management

Environmental hazards

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.2. Structure and Foundation

- Animal damage
- Poor condition at ground level
- Conductors loose, broken or joints separated.
- Signs of burns or tracking due to lightning or insulator leakage
- Leaning structures
- Rust in steel poles

- Issues with weathering or splinters
- Problems with structures supporting switches, metering equipment, capacitor banks, regulators, etc.

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.3. Anchors

- Defective or missing guy

Loose, corroded or damaged guy

Improper anchor

(1-5) (1-5) (yes/no) Priority Priority

2.4. Grounding

Violation to standard

Corroded or Defective ground wire

- Damaged protector

Rod no properly attached

Assessn	nent	(good,	fair,	poor)

Health	Frequenc
(1-5)	(1-5)
(1 5)	(= 0)

S&L Report (yes/no)

Repair Strategic Priority

Comments

2.5. Insulation

- Contamination and signs of flashing
- Improper alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.6. <u>Hardware</u>						
Excess hardwareLoose hardware			adequate spacing anding, etc.	g, improper g	grounding,	- Missing bolts, nuts, washers or lock nuts
Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.7. Conductor Insufficient clearance	- Insuffic	siant congration	Cond			
- Corrosion		cient separation ed or loose ties	- Cond or mi		tion damaged	 Excessive sagging Excessive number of damaged splices
Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.8. <u>Crossarms</u>						
- Damaged, split, twisted, tilt	ted, loose					

2.9. Equipment (Transformers, Switches, Streetlights)

- Leaking or sweating
- Damaged or missing arrestors
- Broken or loose

- Abnormal noise
- Damaged or missing wildlife protectors
- Bushings
- Out of alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.10. General Line Assessment

Additional Comments

3. Recommendations

3.1. Stage 1a (Immediate repair):

Item	Scope of Work	Comments
☐ Grounding		
☐ Anchors / hardware		
☐ Insulators		
✓Structural (poles and crossarms)		
☐ Conductor, Splicing and Spans		•
☐ Other		

Item	Scope of Work	Comments
☐ Vegetation Management	Scope of Work	Commence
☐ Installation of fault indicators.		
☐ Installation of lateral fuses.		
Perform Fusing check		
☐ Other		

3.3. Stage 2 (Long-Term Reliability Improvement):

Item	Scope of Work	Comments
☐ Vegetation Management		
Installation of sectionalizers. ✓		
Installation of reclosers.		
☐ Protection coordination studies.		
☐ Other		

3.4. General Recommendations

Additional	Comments

DISTRIBUTION LINE INSPECTION CHECKLIST

1. Assessment Criteria

1.1. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

1.2. Strategic Priority code

Strategic Priority Code	Description Let us a with applicable codes and
Δ	Compliance/Safety: Work scope required to achieve or maintain compliance with applicable codes and
	standards for safe operation of facilities and regulatory conformance.
D	Reliability: Work scope required to achieve or maintain minimum reliability metrics.
О	Efficiency: Work scope required to improve operating productivity. This includes asset life extension,
C	maintenance cycle offsets, on-line monitoring/diagnostics and asset replacements.
D	Growth & Sustainability: Maximizing grid capacity and the integration of renewable energy sources.

1.3. Health Assessment and Frequency

1	2	3	4	5
Very Good	Good	Fair	Poor	Very Poor
1975 1976 A TOTAL CONTROL OF THE STATE OF TH	Somewhat frequent	Moderate	Very Frequent	All
-	Very Good Very Few or None	very dood	Very Good Soon Andreads	Very Good Work Francisch

1.4. Procedure to assess Problems – Use App Kaizala; create a chat for the feeder with all inspectors

- Note locations (create pin), add a picture of extremely improper vegetation. Insert comments such as 'heavy', 'moderate', etc.
- Create pins for suggestions where reclosers, fuses, fault indicators, etc. would improve performance. Include a picture.
- Include structures that are an imminent failure and high risk. Include pin and photo.
- Include structure that are an extreme safety risk to the public (pin and photo).

1.5. Root Cause Analysis

Vogototi	
Vegetation	Trees in right-of-way
	Trees out of right-of-way
	Tree contacting line
	Creeping plants
Poles	Broken/rotten pole
	Leaning pole
Lines and conductors	Clearance issues
	Lines close to buildings
10000000000000000000000000000000000000	o Low sag
	o Long span
	Conductor degradation (multiple splices)
Insulation	Broken insulation
×4	Contaminated insulation
PART TO	Arcing insulation
Hardware	Loose guy wire
and the same of th	Missing guy wire/anchor
Crossarms	Broken/rotten crossarm
	Leaning crossarm
	Missing/loose bracket
Equipment (reclosers,	Leaking equipment
switches, fuses, voltage	Missing arresters
regulators, capacitor bank,	• Insulation
etc.) and service transformers	o Broken insulation
8087	o Contaminated insulation
	Arcing insulation
Wild life	Crossarm nesting
	Pole pecking

2. Assessment

2.1. Clearances and Brushing

Improper ROW clearance

Poor vegetation Management

Environmental hazards

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Priority	
2.2. Structure and Foundation			l			

. <u>Structure and Foundation</u>

- Animal damage
- Poor condition at ground level
- Conductors loose, broken or joints separated.
- Signs of burns or tracking due to lightning or insulator leakage
- Leaning structures
- Rust in steel poles

- Issues with weathering or splinters
- Problems with structures supporting switches, metering equipment, capacitor banks, regulators, etc.

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments	
2.3 Anchors							

2.3. Anchors

Defective or missing guy

Loose, corroded or damaged guy

Improper anchor

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
		-				
2.4. Grounding						

Violation to standard

Corroded or Defective ground wire

Damaged protector

Rod no properly attached

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
					•	

2.5. Insulation

- Contamination and signs of flashing

- Improper alignment

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Priority	
		17,140,000			La La La La Colonia	

2.6. Hardware

- Excess hardware
- Loose hardware

- Inadequate spacing, improper grounding, bonding, etc.
- Missing bolts, nuts, washers or lock nuts

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report	Repair Priority	Strategic Priority	Comments	
	(1-5)	(1-5)	(yes/no)	Filolity	Thomy		

2.7. Conductor

Corrosion

- Insufficient clearance
- Insufficient separation
- Damaged or loose ties
- Conductor insulation damaged or missing
- Excessive sagging
- Excessive number of damaged splices

2.8. Crossarms

Damaged, split, twisted, tilted, loose

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Priority	

2.9. Equipment (Transformers, Switches, Streetlights)

- Leaking or sweating
- Damaged or missing arrestors
- Broken or loose

- Abnormal noise
- Damaged or missing wildlife protectors
- Bushings
- Out of alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.10. General Line Assessment

	A -1-1141 1 O 4-
	Additional Comments
ė	
٠	

3. Recommendations

3.1. Stage 1a (Immediate repair):

Item	Scope of Work	Comments		
☐ Grounding				
Anchors / hardware				
☐ Insulators				
tructural (poles and crossarms)				
Conductor, Splicing and Spans				
□ Other				

Item	Scope of Work	Comments
Vegetation Management	Scope of Work	Comments
☐ Installation of fault indicators.		and the second of the second o
Installation of lateral fuses.		
Perform Fusing check		
□ Other		

3.3. Stage 2 (Long-Term Reliability Improvement):

Item	Scope of Work	Comments
Wegetation Management		
☐ Installation of sectionalizers.		
☐ Installation of reclosers.		
☐ Protection coordination studies.		
☐ Other		

3.4. General Recommendations

	Additional Comments					

DISTRIBUTION LINE INSPECTION CHECKLIST

1. Assessment Criteria

1.1. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

1.2. Strategic Priority code

Strategic Priority Code	Description				
Α	Compliance/Safety: Work scope required to achieve or maintain compliance with applicable codes and				
	standards for safe operation of facilities and regulatory conformance.				
В	Reliability: Work scope required to achieve or maintain minimum reliability metrics.				
С	Efficiency: Work scope required to improve operating productivity. This includes asset life extension,				
	maintenance cycle offsets, on-line monitoring/diagnostics and asset replacements.				
D	Growth & Sustainability: Maximizing grid capacity and the integration of renewable energy sources.				

1.3. Health Assessment and Frequency

i.	1	2	3	4	5
Health	Very Good	Good	Fair	Poor	Very Poor
Frequency	Very Few or None	Somewhat frequent	Moderate	Very Frequent	All

1.4. Procedure to assess Problems – Use App Kaizala; create a chat for the feeder with all inspectors

- Note locations (create pin), add a picture of extremely improper vegetation. Insert comments such as 'heavy', 'moderate', etc.
- Create pins for suggestions where reclosers, fuses, fault indicators, etc. would improve performance. Include a picture.
- Include structures that are an imminent failure and high risk. Include pin and photo.
- Include structure that are an extreme safety risk to the public (pin and photo).

1.5. Root Cause Analysis

Vegetation	Trees in right-of-way
g	Trees out of right-of-way
	• Tree contacting line
	Creeping plants
Poles	Broken/rotten pole
T Gles	
Lines and conductors	Leaning pole Clearance in the second secon
Lines and conductors	Clearance issues Linear class to be 1111
	o Lines close to buildings
	o Long span
	O Long span
Insulation	Conductor degradation (multiple splices) Broken insulation
msdiation	
	Contaminated insulation
Handurana	Arcing insulation
Hardware	Loose guy wire
	Missing guy wire/anchor
Crossarms	Broken/rotten crossarm
	Leaning crossarm
	Missing/loose bracket
Equipment (reclosers,	Leaking equipment
switches, fuses, voltage	Missing arresters
regulators, capacitor bank,	Insulation
etc.) and service transformers	o Broken insulation
	o Contaminated insulation
	Arcing insulation
Wild life	Crossarm nesting
	Pole pecking

2. Assessment

2.1. Clearances and Brushing

Improper ROW clearance

Poor vegetation Management

Environmental hazards

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
	12.07		(703/110/	Tiloney	-	

2.2. Structure and Foundation

- Animal damage
- Poor condition at ground level
- Conductors loose, broken or joints separated.
- Signs of burns or tracking due to lightning or insulator leakage
- Leaning structures
- Rust in steel poles

- Issues with weathering or splinters
- Problems with structures supporting switches, metering equipment, capacitor banks, regulators, etc.

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments	
	(1-3)	(1-3)	(yes/110)	Filolity	Filolity		
2.3. Anchors							

Defective or missing guy

- Loose, corroded or damaged guy
- Improper anchor

					•	and Part Parts are seen and a seen are seen are seen as a seen are seen are seen as a seen are seen are seen as a seen are seen are seen are seen are seen as a seen are
Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.4. Grounding						
- Violation to standard	- Corrod	ed or Defectịve	ground wire	- Dama	aged protector	- Rod no properly attached
Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments

Assessment	(good,	fair,	poor)	

equen
(1-5)

S&L Report (yes/no)

Repair Strategic **Priority Priority**

2.5. Insulation

- Contamination and signs of flashing

- Improper alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.6. <u>Hardware</u>		***************************************			I a se se namen b	
Excess hardwareLoose hardware			ndequate spacing nding, etc.	g, improper g	grounding,	- Missing bolts, nuts, washers or lock nuts
Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	
2.7. Conductor						
Insufficient clearanceCorrosion		cient separation red or loose ties	- Cond or mi		ion damaged	Excessive saggingExcessive number of damaged splices
Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.8. <u>Crossarms</u>						
- Damaged colit twicted til	ted, loose					
 Damaged, split, twisted, til 						

2.9. Equipment (Transformers, Switches, Streetlights)

- Leaking or sweating
- Damaged or missing arrestors
- Broken or loose

- Abnormal noise
- Damaged or missing wildlife protectors
- Bushings
- Out of alignment

Assessmer	nt (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
2.10.	General Line Asses	ssment					
				Additional Co	omments		

3. Recommendations

3.1. Stage 1a (Immediate repair):

Item	Scope of Work	Comments
☐ Grounding		
🖄 Insulators		
☐ Structural (poles and crossarms)		
■ Conductor, Splicing and Spans		
☐ Other		
and the first of the second se		

tem	Scope of Work	Comments
☑ Vegetation Management		
☐ Installation of fault indicators.		
☐ Installation of lateral fuses.		
✓ Installation of lateral fuses. ☐ Perform Fusing check		
☐ Other		
3.3. Stage 2 (Long-Term Reliability Impro		Comments
Item	Scope of Work	
☐ Vegetation Management		
☐ Installation of reclosers.		
☐ Protection coordination studies.		
□ Other		
3.4. General Recommendations		
	Additional Comments	

DISTRIBUTION LINE INSPECTION CHECKLIST

1. Assessment Criteria

1.1. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

1.2. Strategic Priority code

Strategic Priority Code	Description
Α	Compliance/Safety: Work scope required to achieve or maintain compliance with applicable codes and
	standards for safe operation of facilities and regulatory conformance.
В	Reliability: Work scope required to achieve or maintain minimum reliability metrics.
С	Efficiency: Work scope required to improve operating productivity. This includes asset life extension,
	maintenance cycle offsets, on-line monitoring/diagnostics and asset replacements.
D	Growth & Sustainability: Maximizing grid capacity and the integration of renewable energy sources.

1.3. Health Assessment and Frequency

2 1000 1000	1-2	3-4	5-6	7-8	9-10
Health	Very Good	Good	Fair	Poor	Very Poor
Frequency	Very Few or None	Somewhat frequent	Moderate	Very Frequent	All

1.4. Procedure to assess Problems - Use App Kaizala; create a chat for the feeder with all inspectors

- Note locations (create pin), add a picture of extremely improper vegetation. Insert comments such as 'heavy', 'moderate', etc.
- Create pins for suggestions where reclosers, fuses, fault indicators, etc. would improve performance. Include a picture.
- Include structures that are an imminent failure and high risk. Include pin and photo.
- Include structure that are an extreme safety risk to the public (pin and photo).

1.5. Root Cause Analysis

Vegetation	Trees in right-of-way
	Trees out of right-of-way
	Tree contacting line
	Creeping plants
Poles	Broken/rotten pole
	• Leaning pole
Lines and conductors	Clearance issues
	o Lines close to buildings
	o Low sag
	o Long span
	Conductor degradation (multiple splices)
Insulation	Broken insulation
	Contaminated insulation
	Arcing insulation
Hardware	Loose guy wire
	Missing guy wire/anchor
Crossarms	Broken/rotten crossarm
	Leaning crossarm
	Missing/loose bracket
Equipment (reclosers,	Leaking equipment
switches, fuses, voltage	Missing arresters
regulators, capacitor bank,	Insulation
etc.) and service transformers	o Broken insulation
in the second second	o Contaminated insulation
	Arcing insulation
Wild life	Crossarm nesting
	Pole pecking

2. Assessment

2.1. Clearances and Brushing

Improper ROW clearance

Poor vegetation Management

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority		Comments
2.2. Structure and Foundation							
- Animal damage	uol.		gns of burns or tr	•	o lightning	-	Issues with weathering or splinters

- Poor condition at ground level
- Conductors loose, broken or joints separated.
- or insulator leakage
- Leaning structures
- Rust in steel poles

Problems with structures supporting switches, metering equipment, capacitor banks, regulators, etc.

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
		Wall has the control of the supplementary and				

2.3. Anchors

Defective or missing guy

- Loose, corroded or damaged guy
- Improper anchor

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
	(1-3)	(1-3)	(yes/iio/	Tiloticy	Tilonity	

2.4. Grounding

Violation to standard

- General condition of ground wire

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair Priority	Strategic Priority	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Filolity	
					<u> </u>	

2.5. Insulation

- Contamination and signs of flashing
- Improper alignment

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Priority	

2.6. Hardware

- Excess hardware

- Inadequate spacing, improper grounding, bonding, etc.
- Missing bolts, nuts, washers or lock nuts

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Priority	

2.7. Conductor

Corrosion

- Insufficient clearance
- Insufficient separation

Damaged or loose ties

- Tree wire insulation damaged or missing
- Excessive sagging
- Excessive number of damaged splices

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
	(1-5)	(1-5)	(463/110)	Thomey	riioney	

2.8. Crossarms

- Damaged, split, twisted, tilted, loose

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.9. Equipment (Transformers, Switches, Streetlights)

- Leaking or sweating
- Damaged or missing arrestors
- Broken or loose

- Abnormal noise
- Damaged or missing wildlife protectors
- Bushings
- Out of alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	

2.10. General Line Assessment

·	Additional Comments	

3. Recommendations

3.1. Stage 1a (Immediate repair):

Item	Scope of Work	Comments
☐ Grounding		
☐ Anchors / hardware		
☐ Insulators		
☐ Structural (poles and crossarms)		
Conductor, Splicing and Spans		
☐ Other		

Item	Scope of Work	Comments	
Vegetation Management			
☐ Installation of fault indicators.			200
☐ Installation of lateral fuses.			
≝ Other			

Item	Scope of Work	Comments
✓ Vegetation Management		
☐ Installation of sectionalizers.		
☐ Installation of reclosers.		
☐ Protection coordination studies.		
☐ Other		

3.4. General Recommendations

	Additional Comments
Clearance/Brushing:	
Structure/Foundation:	
Anchors/Guy:	
Grounding:	
Insulators:	
Hardware:	
Conductors:	
Crossarms:	
Equipment:	
Other:	

DISTRIBUTION LINE INSPECTION CHECKLIST

1. Assessment Criteria

1.1. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

1.2. Strategic Priority code

Strategic Priority Code	Description
Α	Compliance/Safety: Work scope required to achieve or maintain compliance with applicable codes and
List survey	standards for safe operation of facilities and regulatory conformance.
В	Reliability: Work scope required to achieve or maintain minimum reliability metrics.
С	Efficiency: Work scope required to improve operating productivity. This includes asset life extension,
	maintenance cycle offsets, on-line monitoring/diagnostics and asset replacements.
D	Growth & Sustainability: Maximizing grid capacity and the integration of renewable energy sources.

1.3. Health Assessment and Frequency

	1-2	3-4	5-6	7-8	9-10
Health	Very Good	Good	Fair	Poor	Very Poor
Frequency	Very Few or None	Somewhat frequent	Moderate	Very Frequent	All

1.4. Procedure to assess Problems – Use App Kaizala; create a chat for the feeder with all inspectors

- Note locations (create pin), add a picture of extremely improper vegetation. Insert comments such as 'heavy', 'moderate', etc.
- Create pins for suggestions where reclosers, fuses, fault indicators, etc. would improve performance. Include a picture.
- Include structures that are an imminent failure and high risk. Include pin and photo.
- Include structure that are an extreme safety risk to the public (pin and photo).

1.5. Root Cause Analysis

Vegetation	Trees in right-of-way
	Trees out of right-of-way
	Tree contacting line
	Creeping plants
Poles	Broken/rotten pole
	Leaning pole
Lines and conductors	Clearance issues
	 Lines close to buildings
	o Low sag
	o Long span
All of the same	Conductor degradation (multiple splices)
Insulation	Broken insulation
Kin - Land - herey	Contaminated insulation
and the second second	Arcing insulation
Hardware	Loose guy wire
Janes Santa Lakera Cale and	Missing guy wire/anchor
Crossarms	Broken/rotten crossarm
	Leaning crossarm
	Missing/loose bracket
Equipment (reclosers,	Leaking equipment
switches, fuses, voltage	Missing arresters
regulators, capacitor bank,	Insulation
etc.) and service transformers	o Broken insulation
American social social	o Contaminated insulation
And the second s	Arcing insulation
Wild life	Crossarm nesting
	Pole pecking

2. Assessment

2.1. Clearances and Brushing

- Improper ROW clearance

Poor vegetation Management

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
197						

2.2. Structure and Foundation

- Animal damage
- Poor condition at ground level
- Conductors loose, broken or joints separated.
- Signs of burns or tracking due to lightning or insulator leakage
- Leaning structures
- Rust in steel poles

- Issues with weathering or splinters
- Problems with structures supporting switches, metering equipment, capacitor banks, regulators, etc.

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Priority	

2.3. Anchors

Defective or missing guy

Loose, corroded or damaged guy

Improper anchor

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments	
		(= -)	(700707		, none		

2.4. Grounding

- Violation to standard
- General condition of ground wire

	ealth 1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
7-	1 3/	(1-3)	(963/110)	Filority	Priority	

2.5. Insulation

- Contamination and signs of flashing
- Improper alignment

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Priority	
					1	

2.6. Hardware

- Excess hardware

- Inadequate spacing, improper grounding, bonding, etc.
- Missing bolts, nuts, washers or lock nuts

Assessment (good, fair, poor)	Health	Frequency	S&L Report	Repair	Strategic	Comments
	(1-5)	(1-5)	(yes/no)	Priority	Priority	

2.7. Conductor

- Insufficient clearance
- Insufficient separation
- Tree wire insulation damaged or missing
- Excessive sagging
- Corrosion Damaged or loose ties missing Excessive number of damaged splices

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.8. Crossarms

- Damaged, split, twisted, tilted, loose

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments

2.9. Equipment (Transformers, Switches, Streetlights)

- Leaking or sweating

- Abnormal noise

- Bushings

Damaged or missing arrestorsBroken or loose

- Damaged or missing wildlife protectors
- Out of alignment

Assessment (good, fair, poor)	Health (1-5)	Frequency (1-5)	S&L Report (yes/no)	Repair Priority	Strategic Priority	Comments
	(1-3)	(1-3)	(963/110/	Tiloticy	Titoticy	

2.10. General Line Assessment

Additional Comments	
	and the same of th

3. Recommendations

3.1. Stage 1a (Immediate repair):

Item	Scope of Work	Comments
☐ Grounding		
☐ Anchors / hardware		
☐ Insulators		
☐ Structural (poles and crossarms)		
☑ Conductor, Splicing and Spans		
□ Other		

Item	Scope of Work	Comments
Vegetation Management		
☐ Installation of fault indicators.		
☐ Installation of lateral fuses.		
Perform Fusing check		
☐ Other		

3.3. Stage 2 (Long-Term Reliability Improvement):

Item	Scope of Work	Comments
🗷 Vegetation Management		
☐ Installation of sectionalizers.		
Installation of reclosers.		
☐ Protection coordination studies.		
☐ Other		

3.4. General Recommendations

	Additional Comments
Clearance/Brushing:	
Structure/Foundation:	
Anchors/Guy:	
Grounding:	
Insulators:	
Hardware:	
Conductors:	
Crossarms:	
Equipment:	
Other:	