1	Q.	Please provide electronic documents describing overhead and underground
2		distribution mainline and URD feeder inspection, testing, and maintenance
3		programs and practices. These documents should describe the activities to be
4		conducted by equipment type, the time period between time-based activities, and
5		what triggers condition-based activities.
6		
7		
8	A.	Overhead Distribution Lines (New)
9		As per PUB-NLH-092 Attachment 1 "new major line extensions or replacements will
10		receive a visual inspection within two years of construction. The next scheduled
11		visual inspection will be ten years after the 1 st inspection. Climbing inspections may
12		be required at the discretion of the supervisor" (see PUB-NLH-092 Attachment 1
13		and PUB-NLH-092 Attachment 4.)
14		
15		Overhead Distribution Lines (Existing)
16		The frequency of line structure inspections for existing lines is set by the
17		Distribution Maintenance Committee, in consultation with Operations staff in each
18		region. Inspection frequencies typically range from five years to ten years,
19		depending on the overall age of the line, exposure to the elements (high wind
20		and/or salt conditions), and trouble history (see PUB-NLH-092 Attachment 1 and
21		PUB-NLH-092 Attachment 4).
22		
23		<u>Underground/Submarine Cable Structures</u>
24		The overhead structures supporting underground/submarine cables are inspected
25		on an annual or semi-annual schedule, depending on the criticality of the asset, the
26		age of the structure, environmental conditions, and the previous

	Island Interconnected System Supply Issues and Power Outages
	Page 2 of 2
1	trouble/maintenance history (see PUB-NLH-092 Attachment 2 and PUB-NLH-092
2	Attachment 3).
3	
4	Submarine Cables
5	Diving inspections are performed on an as required basis but generally are
6	performed every three years by an outside contractor.
7	
8	For all of the inspections listed above, condition-based activities are triggered when
9	an inspector notes an abnormal condition on the form provided for the particular
10	inspection. For minor conditions, repairs may be done while the inspector is on site.
11	For others, a work order would be created based on the report and submitted to
12	the appropriate crew for action.



DISTRIBUTION LINE MAINTENANCE MANUAL

TITLE: Transformer Structure / Line Structure | Inst. No. 020 | Rev. No. 3 | Page 1 | of 1

1.0 Introduction:

All distribution transformers (Pole top, Padmounts, Step-down) & associated structures will be inspected visually as determined by the System Maintenance Review and will receive a climbing inspection at the discretion of the supervisor. This includes Diesel Plant & Single Phase Power Transformers.

1.1 Line structures will be inspected visually as per the System Maintenance Review, however, new major line extensions or replacements will receive a visual inspection, within two years of construction. The next scheduled visual inspection will be 10 years after the 1st inspection. Climbing inspections may be required at the discretion of the supervisor.

2.0 Procedure:

Each transformer structure / line structure will be carefully inspected following the standard form # 120 and any additional instruction given by the Supervisor. Visual inspections may be aided by the use of binoculars

3.0 Checklist:

To complete the checklist refer to Standard Code Instructions.

APPROVED BY:	ISSUED DATE: 1990/12/10	REV. DATE : 2012/11/14
Distribution Maintenance		
Committee		

	Asset Information		
Jnique # Pole Height			
reatment	 Geographic Loca	tion	
Vood Species			
Class /intage	Community/High	way	
Structure Type/s			
DMM INST	RUCTION # 100		□ Climbing Inspection
<u> Jnderground / Subma</u>	rine Cable & Str Inspec	<u>:tion</u>	□ Visual Inspection
Code Item INSU INSU INSU INSU INSU INSU INSU INSU	ndition is abnormal and on platform in the pla	Code 27 32 44 50 56 58 61 64 65 68 80 95	Item GROUND WIRE SWITCH NUMBER CONNECTIONS WARINING SIGNS LIGHTING ARRESTOR EROSION CONDUIT TERMINATORS UNDERGROUND/ SUBMARINE CABLE NECKLACES STRUCTURE/UNIQUE NUMBER TAG GROUNDING TO STANDARD
	Comments		
POLE	Comments		



DISTRIBUTION LINE MAINTENANCE MANUAL

TITLE:	Underground / Submarine Cable &	Inst. No.	100
	Structure Inspection	Rev. No.	2
		Page 1	of 1

1.0 Introduction:

All underground / submarine cable & structures will be inspected visually as determined by the System Maintenance Review and will receive a climbing inspection at the discretion of the supervisor.

2.0 Procedure:

Each underground / submarine cable & structure will be carefully inspected following the standard form # 100 and any additional instruction given by the Supervisor.

3.0 Checklist:

To complete the checklist refer to Standard Code Instructions.

APPROVED BY:	ISSUED DATE: 1990/12/10	REV. DATE : 2011/03/01
Distribution Maintenance		
Committee		

-	THE POWER OF		
	Asset Information		
Pole #	# of Anchors _		
	Aliant Attache tCATV Attache		
Treatment	Trans #	kVA	Voltage
Wood Spe	ciesSec. Wire (Ty	pe/Size) _	
	Sec. Leads (T		
	Geographic Lo		
	DMM INSTRUCTION # 20		□ Climbing Inspection
ransform	er Structure / Line Structure Ins	<u>pection</u>	□ Visual Inspection
Also	to be used for Recloser / Voltage	ge Regula	tor / Sectionalizer Structure Inspections
Structure C	Condition (Check box if condition is	OK, N/A	Not Applicable
or Ci	rcle box if condition is abnormal ar	nd comme	nt)
Code	eItem BRUSH_ABCDE	Code 31	Item SECONDARY NEUT.TIED TO SYSTEM NEUT.
12	PRIMARY CONDUCTOR	-	SWITCH / DEVICE NUMBER
3	INSULATOR	35	TANK CONDITION A D B D C D
)4	INSULATOR TIES	36	COND OF BANDS & RADS A B C D
)5	INSULATOR HARDWARE	38	STREET LIGHT
06	CROSSARM A □ B □ C	□ 39	PLATFORM
)7	CORSSARM HARDWARE	40	BUSHINGS
)8	HOT LINE CLAMP	44	CONNECTIONS
9	PRIMARY LEAD	46	LOCK
10	CUTOUTS	49	DOOR
1	NEUTRAL BRACKET	50	WARNING SIGNS
13	SECONDARY HARDWARE	51	PROTECTIVE MECHANICAL BARRIERS
14	SECONDARY TIES	53	GROUNDING / BONDING - PAD MOUNT
15	SECONDARY CONNECTIONS	54	OIL LEAKS
6	SERVICE DROPS	56	LIGHTING ARRESTOR
19	GUY WIRE	64	TERMINATORS
20	GUY WIRE BONDED	80	STRUCTURE / UNIQUE NUMBER TAG
21	GUY GUARD	81	MOUNTINGS BOLTS
22	ANCHORS CRIB A B C	87 <u>[</u>	CONCRETE PAD GROUND WIRE TIED TO CASE GROUND
24	CRIB A B C POLE A B C	96 [97 [GROUND WIRE TIED TO CASE GROUND GROUND WIRE TIED TO SYSTEM NEUTRAL
25	SECONDARY LEADS	98 [99 [NEUTRAL TIED TO H2
26	SECONDARY WIRE GROUND WIRE	99 <u>[</u> 100 [H2 TIED TO X2 (DUAL BUSHINGS)
28	GROUND WIRE GROUND WIRE MOULDING	100 [X2 BONDED TO TANK X2 BONDED TO NEUTRAL
Secondary	Voltage Ø-N Ø-Ø AMPS AØ B-Ø	C-Ø	N
Code	Comments		
<u> </u>			
			· · · · · · · · · · · · · · · · · · ·
Inspector			Date
Supervisor			Date
	ned for Corrective Action. W/O #		