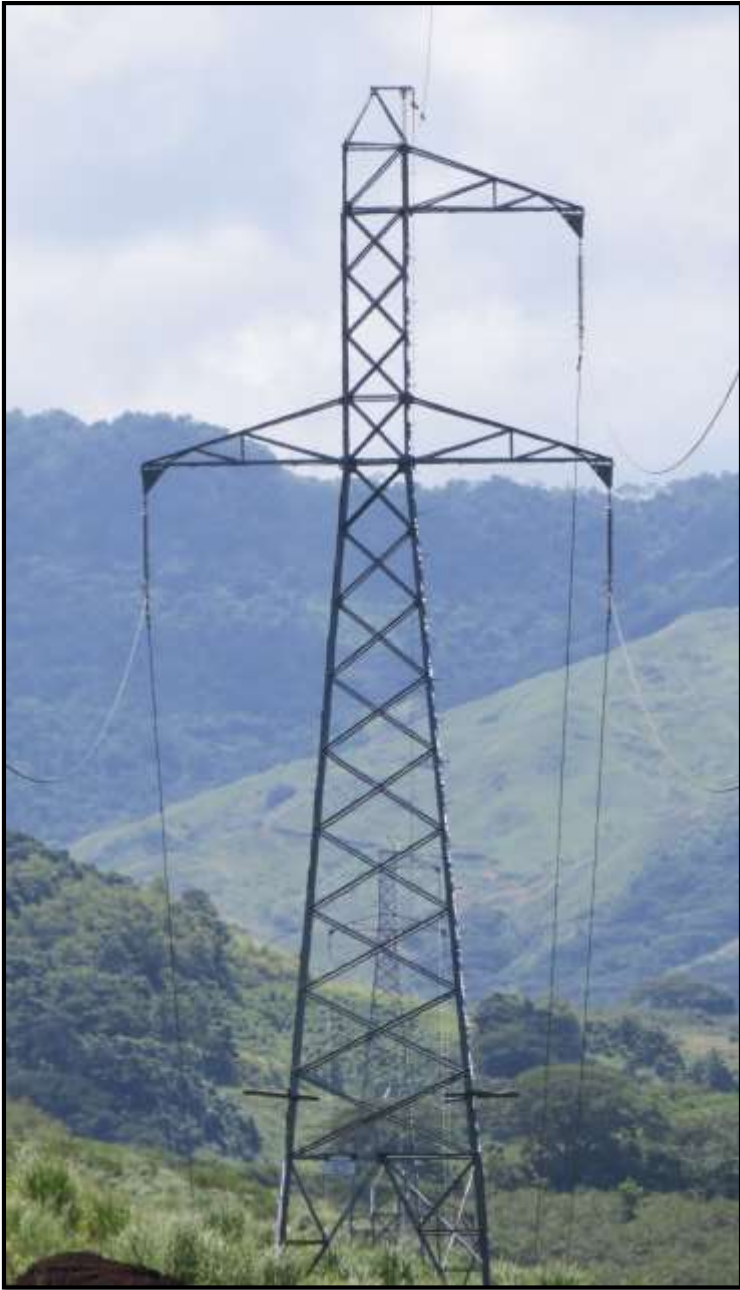




Structure looking towards CD Face



Tower ID	WAI-VUD-A0020	
Contract number	HSG-3	
Final No.	69-2	
Insulator Type/ Condition	COMPOSITE	
Type	0	
Body Extn - size	0	
Legs - size	+/-0, +1, +1, +/-0	
Earth Wire	YES	
Tower Area m²	117	
Rust m²	5	4%
Sweep m²	100	85%

RC steel identified	0	
Earth plates fitted/ Compliant	#N/A	
Climbing Deterrent Fitted	YES	
Padlock Type	None	
Environmental Rating	Low impact on neighbouring activities, low level protection from public.	
Vehicle Access	No Vehicle access directly to towers and/ or requires maintenance prior to vehicle access.	
Vegetation Control	Required Minor	
Property Usage	Dry Stock farming (sheep, beef, deer or a combination)	
Foundation Connection Type	TSC	
Bridge/ Culverts	YES	
Cell Coverage	Marginal	

Comments

Track access maintenance required prior to entry
No cpi - Fiji
Light ZCP through out structure
Dross throughout structure on steel
Anti-climb in need of repair.
LSD - needs replacing
Steep terrain around tower
Stream 60m from C-Leg
Unknown paint 1m up from foundations

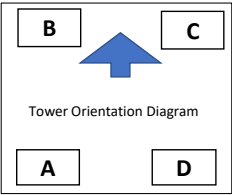
Step Bolts: 48

Comment: GOOD

RC Bolts 5



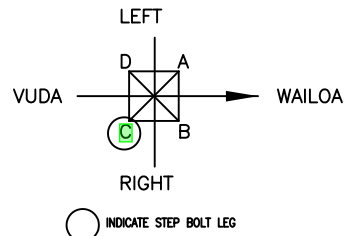
LSD on CD Face



#N/A



LANDOWNER DETAILS			INSPECTION TEAM LUMEN			Date	GPS COORDINATES (WGS84)			WAI-VUD-A			DRG. SIZE	SCALE	FOLDER	
LandOwner	Refer To Efl		Inspector-Tower	Des Gracie		4/03/2025	LATITUDE	17°42'45.72"S		A3	N/A	CAP20477				
TowerAccess	Sabato		Inspector-Ground	Des Gracie			LONGITUDE	177°35'11.76"E		Work Scope Assessment Report - Feb-2025	WID	0	SHEET	REVISION		
ContactName	Refer To Efl		Draft Report	R Glover	12/02/2025								1	2		
ContactPhone	Refer To Efl		Report Review	M Boardman	12/02/2025								WAI-VUD-A0020			



NUMBER OF REPLACEMENT CRITERIA STEEL MEMBERS	
MINOR	
MAJOR(CRITICAL)	
MAJOR(OTHER)	

NUMBER OF REPLACEMENT CRITERIA BOLTS	
RC STEEL	
STEEL RATED AT CA21-30	
RC BOLTS	

RC STEEL	
STEEL RATED AT CA21-30	
RC BOLTS	

STRUCTURE DESCRIPTION	
LINE:	WAI-VUD-A
STR No.	20
BODY EXTN:	0
LEG A:	+/-0
LEG B:	+1
LEG C:	+1
LEG D:	+/-0
INSPECTED BY:	DG
COMPANY:	LUMEN
DATE:	4/3/25

FOUNDATIONS	
GRILLAGE	TSC
CONCRETE	
MASS CONC.	

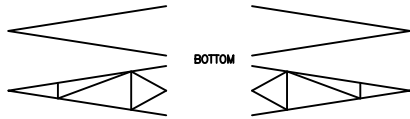
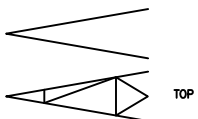
HANGER	
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	PLT

HANGER	
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	

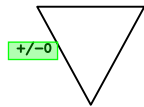
HANGER	
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	

HANGER	
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	

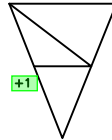
EARTHPEAK
SINGLE E/PEAK



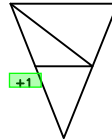
ATTACHMENT DETAILS



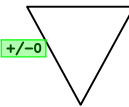
SECTIONS J-J
LEG A



SECTIONS J-J
LEG B



SECTIONS J-J
LEG C

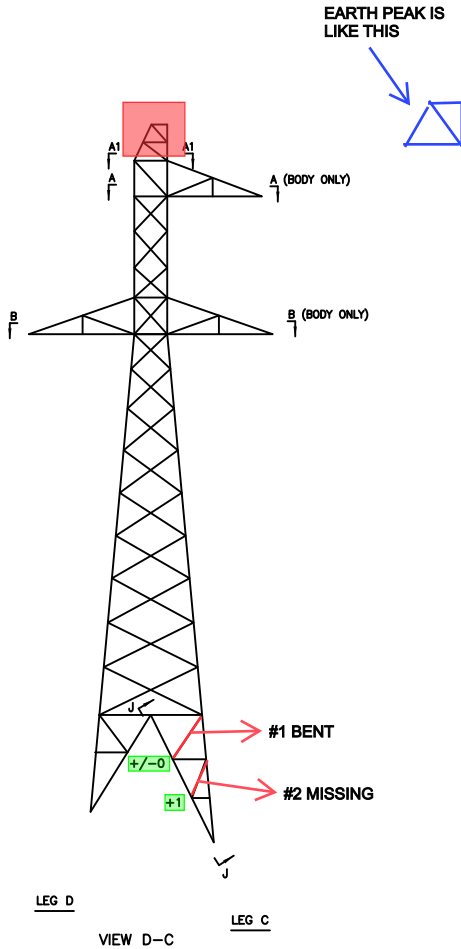


SECTIONS J-J
LEG D

SECTION A1-A1

SECTION A-A

SECTION B-B



LEG D

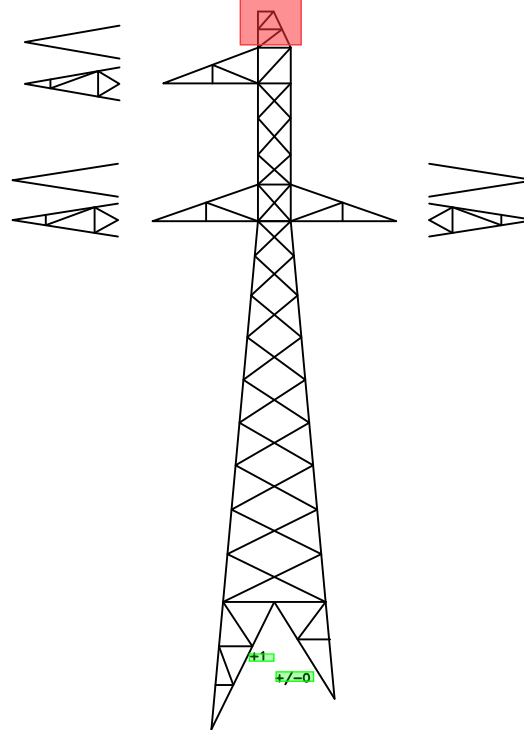
VIEW D-C

LEG C

LEG A

VIEW A-D

LEG D



LEG B

VIEW B-A

LEG A

#3 MISSING

LEG C

VIEW C-B

LEG B

TOWER TYPE USED: HSG-3

AMENDMENT				BY	CHKD	DATE	AMENDMENT				BY	CHKD	DATE

DRAWN	M.L.	8.22
DESIGNED	LUMEN	8.22
CHECKED		
APPROVED	-	-
CAD FILE		

LUMEN
Consulting
210 Hazelden Rd.
PO Box 25052
Christchurch, New Zealand
Tel +64 (03) 377 1546

ENERGY FIJI LTD	
VUDA - WAILOA LINE TOWER 69-2(20) OUTLINE	

SCALE	N.T.S
VUD-WAI 69-2	ISS. -1

DEVICEPOSITIONDESC	R	REF	BARMARK	FACE	DIRECTION	LOCATION	MEMBERTYPE	CALCULATIO	A	LENGTH	B	LENGTH	T	LENGTH	EFFECTIVEA	W	LENGTH	D	LENGTH	NETLOSS	X	LENGTH	Y	LENGTH	Z	LENGTH	ANGLEBENT	RESULT	COMMENT
WAI-VUD-A0011		1	HSG-87	CD	TOP CORD	BOTTOM X-ARM	MAJOR-OTHER	BENT	None	None	None	None	None	None	None	None	None	None	None	None	5000	4000	20	1.432394488			PAINT		
WAI-VUD-A0022		1	HSG-18	DA	HORIZONTAL	UPPER BODY	MAJOR-OTHER	BENT	None	None	None	None	None	None	None	None	None	None	None	None	1200	600	50	9.549296586			REPLACE		
WAI-vud-a0013		#1	HSG887	CD	HORIZONTAL	LEGS	MINOR	BENT	None	None	None	None	None	None	None	None	None	None	None	None	1500	1000	30	5.156620156			REPLACE	BENT BY TREE	
WAI-VUD-A0020		1		CD	DIAGONAL	LEGS	MINOR	BENT	None	None	None	None	None	None	None	None	None	None	None	None	1000	500	30	6.875493542			REPLACE		
WAI-VUD-A0020		2		CD	DIAGONAL	LEGS	MINOR	MISSING	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	REPLACE			
WAI-VUD-A0020		3		BC	LEG	LEGS	MINOR	MISSING	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	REPLACE		
WAI-vud-a0039		#1	S2G 27	AB	DIAGONAL	UPPER BODY	MAJOR-OTHER	MISSING	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	REPLACE	DIAGONAL MEMBER JUST ABOVE HORIZONTAL IN LINE WITH MAIN TOP CHORDS ON THE BOTTOM ARM.	

									Imperial Original Size				Replacement Size		
Device Position Description	#	Steel ID	Tower Face	Steel Type	Location	Member Type	Condition	Result	width	breadth	gauge	Drawing ref.	width2	breadth3	gauge4
WAI-VUD-A0011	1	HSG-87	CD	TOP CORD	BOTTOM X-ARM	MAJOR-OTHER	BENT	Paint	51	51	3	02-C23-143	50	50	6
WAI-VUD-A0022	1	HSG-18	DA	HORIZONTAL	UPPER BODY	MAJOR-OTHER	BENT	Replace	44	44	3	02-C23-143	50	50	6
WAI-VUD-A0039	1	S2G-27	AB	DIAGONAL	UPPER BODY	MAJOR-OTHER	MISSING	Replace	44	44	5	4910	50	50	6
WAI-VUD-A0020	1	HSG-	CD	DIAGONAL	LEGS	MINOR	BENT	Replace							
WAI-VUD-A0020	2	HSG-	CD	DIAGONAL	LEGS	MINOR	MISSING	Replace							
WAI-VUD-A0020	3	HSG-	BC	LEG	LEGS	MINOR	MISSING	Replace							