## PHYSICAL DEMANDS DESCRIPTION (PDD)

	July 26, 200									ennifer Yorke B. Sc. (Hons Kin)	
Depa	rtment Line	e & Utility – Traffic	Lights	_				tle Electi		Company Stacey Electric & K-Line	
			*	*FREQUENCY				AD t/tool)			
	PHYSICAI	L DEMANDS	Not Component	Seldom	Minor	Required	Major	Maximum (Kg)	Usual (Kg)	COMMENTS	
	Lifting					X		30	1 - 5	Working with tools (usually ratchets, hammers, etc.); materials handling	
	Carrying					X		30	22	Carrying traffic poles, traffic lights, etc.	
	Pushing				Х	Λ		30	22	Pushing bolts through drill holes, etc.	
	Pulling				X			85		Opening submersible transformer lids, removing old bolts	
IGTE	Handling						X	30	1 - 5	Materials and tools handling (eg. Cordless drill)	
STRENGTH	Throwing			Х						Tossing items to electrician in the bucket of the lift truck approx. 8' from the ground	
Š	Gripping	Power Grasp				X				Loosening tight bolts, holding traffic light during installation	
		Pinch Grasp			X					Writing, connecting traffic light	
	Reaching	Above Shoulder		X							
		Below Shoulder					X			Bucket work, filling out inspection sheets	
	~	To the Side			X				<u> </u>	Awkward positions during bucket work	
	Shoulder	Abduction			X			Awkward positions during bucket work			
	***	Flexion			X			Bolting traffic pole to bracket (bucket work)			
	Hip	Abduction		X				Wide stance in bucket for balance			
	Wrist	Flexion/Extension Radial/Ulnar Devn			X			Using bucket controls, writing			
Š		Pronate/Supinate				X		Hammer use, ratchet use, etc.			
RE		Flexion		X				Screwdriver use  Bucket work, driving to the work site			
TU	Trunk	Extension				X		Bucket	ucket work, driving to the work site		
POSTURES		Side Bend		X	X			Bucket work			
P		Twist		X	Λ			Bucket			
		Flexion		Λ		X			bucket w	vork	
	Neck	Extension		X		Λ		,,,,,,,	bucket w	ork .	
		Side Bend		X				Awkward positions during bucket work			
		Twist		X						ns during bucket work	
	Sitting	1		X						rk location	
	Standing			1			X				
	Walking				X			Walking between transformers, gathering materials			
X	Climbing			X				Climbin	g into and	out of the bucket or truck	
Ίľ	Crawling		X								
311	Crouching		X								
MOBILITY	Kneeling		X								
Σ	Balancing					X		Working	g on traffic	c lights in the bucket	
	Foot	One Foot		X							
	Action	Feet					X			et, walking between transformers	
	Fine Finger	Movements			X	 FREQ			ut transfo	ormer inspection sheets, connecting wires	

SELDOM = Not always performed during completion of job MINOR = Performed less than 25% of job REQUIRED = Frequent Repetition for 25%-50% of job MAJOR = Frequent Repetition for more than 50% of job

## PHYSICAL DEMANDS DESCRIPTION (PDD)

PHYSICAL DEMANDS			+	*FREQUENCY				
			Not Component	Seldom	Minor	Required	Major	COMMENTS
	Hearing	Conversations				X		Communicating with partner regarding task at hand
		Other Sounds		X				Potential emergency calls and alarms
١,	Vision	Far				X		Past 5 feet; identifying components on submersible
]AI		N.T.						transformers
SENSORY/PERCEPTUAL		Near				X		Installing traffic lights (in bucket)
		Colour			X			Wiring traffic lights, identifying the status of transformer parts
		Depth				Х		Used in transformer inspections, light installations
PE	Perception	Spatial – organization			Х			Redirecting traffic with pylons, identifying transformer
[X]		F						components
OR		Form - recognition				X		Identifying different bolt lengths, finding items in tool bag
NS	Feeling						X	Finding an item in the bucket tool bag, tightening bolts
$\mathbf{SE}$	Reading				X			Reading work orders, transformer inspection sheets
	Writing				X			Filling out transformer inspection sheets, work orders
	Keying/Typing		X					
	Speech					X		Communicating with partner on ground/in bucket
	Outside Work Hot						X	A (C d CTA): II : 20C W I
					X			Average max. temp. (for the GTA) in July is 29C. Work continues during hot weather.
	Cold				X			Work continues during the winter months – extreme cold
	Cold				71			limits ability to work
	Humid Dry				X			Usually the weather is humid during the summer months –
								work continues during humid weather
L							X	Outdoor work stops during heavy rain; work mostly in dry weather/environments
EN	Dust				Х			Outdoor allergens
M	Vapour Fumes				Λ		Х	Traffic, bucket lift generator
WORK ENVIRONMENT	Noise						X	Traffic, generator to power bucket lift, mechanical tools
/IR	Vibration	Whole Body		X				Driving to a work site
		Upper Extremity		X				Drilling
K E	Contact Stress					Х		Drilling, hammering, loosening rusted bolts, etc.
)RI	Striking with Hand/Fist		X					Striking is accomplished with hand tools (ie. Hammers)
WC	Moving Objects						X	Traffic, bucket lift constantly moving in the wind
	Hazardous Machines			X				Tools & lift truck are safe if kept in repair
	Electrical						X	
	Sharp Tools				X			Cutting devices to strip wires, wire cutters
	Radiant/Thermal Energy		X					
	Slippery			X				Tools, the bucket, etc. can become slippery when it rains
	Congested Worksite						X	Traffic concerns
	Chemical Irritants		<u> </u>	X				Spray used to loosen rusted bolts
,,	Works Independent but in Group						X	Works in pairs – one in the bucket, one on the ground
CONDITIONS	Operate Equipment/Machinery						X	Bucket lift, drills  Rusket lift accords/descends at a one speed
III	Machine Paced			X				Bucket lift ascends/descends at a one speed  Traffic lights must be completed in a certain timeframe due
QN	Production Quotas					X		to need for traffic control officers
00	Deadline Pressures				X			Continuous work rate
	Irregular/Extended Hours		X					
	OM = Not always	s performed during completions than 25% of job	n of job		*FRI	EQUEN	CY	REQUIRED = Frequent Repetition for 25%-50% of job MAJOR = Frequent Repetition for more than 50% of job

**Prepared by:** Jennifer Yorke B. Sc. (Hon. Kin.)

Supervised by: Syed Naqvi – PhD CCPE (Ergonomist, OHCOW) & Gary Majesky (IBEW L.U. 353)