Appendix 'C' – Electrical Inspection Forms

INSPECTION FORM Winnipeg MOLDED CASE CIRCUIT BREAKER, < 1000V								1 of 2						
\	Vinnipèg		ı	MOLDE	D CASE	CIRC	CUIT BRE	AKER, < 100)0V	II	D:			
Project	Facility: N	1acLean F	RPS		Pr	oject N	ame: MacLe	ean Regional Pump	ing Statio	n Valve Ho	ouse El	lectrical Upgr	ade	
Pro	Area: Val	ve House)		Те	nder N	0.: 553-202	4						
ata	Location:						oard/MCC:		T		Cell #	:		
Breaker Data	Manufactu					Type:			Serial					
Breal	Rated Volt	age:	V	Fran	ne Size:		Α		Trip U	nit:				
	Interrupting	g Rating:		kA	(Comme	nts:							
	Breaker Ide	entificatio	n Tag In	stalled:	☐ Ye	s	□No	Visual Signs of	Overheat	ina:		П	Yes □ No	0
/ 1	Cleanlines						le 🗌 Poor	Cables Support					Yes □ No	
ctior								Electro/Mechan	ical		7.0			
Visual Inspection / Cleaning	Connection					-	le Poor	Interlock:		N/A L			otable Po	100
sual Cl	Ground Co		:				le Poor	Exercise Circuit	Breaker:				Yes	
Vi	Door Mech	nanical:		☐ G	ood 🗌 Ac	ceptabl	le Poor	Other:						
	Comments	:: 												
	Trip Uni	t Rating:	Δ	. -	Trip Unit Ty	vpe:	□ None [☐ Thermal Magr	etic \square E	Electronic	. n	LI ∏LSI	□LSIG	
gs	-	Trip Unit Rating: A Trip Unit Type: None Thermal Magnetic Electronic LI LSI LSIG Breaker Setting (As Left) Range Setpoint Delay I ² T												
Breaker Settings	Lo	ng Time		Fixe	d 🗌 Adj.		-	Х	A =	А		sec	□ On □ 0	Off
ıker S	Sh	ort Time		Fixe	d 🗌 Adj.		-	Х	A =	А		sec	□ On □ 0	Off
Brea	Inst	antaneou	S	Fixe	d 🗌 Adj.		-	Х	A =	А	A N/A			
	Gro	ound Faul	t	Fixe	d 🗌 Adj.		-		Α			sec	□ On □ 0	Off
	Danfanna in						2504					I		
st			0	e measur ource:	Disco			, or as specified.	Isolated)	Annro	val is	required nr	ior to leaving	y
e Te	Temperatu	ire:	°C –	oad:	Disco			nected (Load Iso				nected durin		<i>'</i>
tanc	Test							on Resistance (1				
Resis	Voltage (VDC)		se To GI		ker Closed	d)	1	Phase (Breaker				Load (Brea	 	
Insulation Resistance Test		Α		В	С		A – B	B – C	A - C	A	١	В	С	
sula	Test Sumi	marv		est Passe	<u> </u> ed □ T	est Inc	onclusive. F	urther Investigat	ion Requi	ired.	<u> </u>	Test Faile	 !	
u	Comments										_		-	
			,											
ce t	Perform co	ontact me	asureme	ents for br	reakers >= A	250A, (or as specif B	ied.	Tocs	Summai	rv.			
Contact Resistance	Res	sistance	(μΩ)				<u> </u>		<u> </u>	est Passe est Incon	ed	Δ.		
C. Res	Comments	»:							F		vestig	e jation Requi	red.	

	<u> </u>		INSPE			Page	2 of 2
•	Winnipèg	MOLDEI	D CASE CIF	RCUIT	BREAKER, < 1000V	ID:	
					T		
<u>.v</u>	Returned to S	Service:	☐ Yes	☐ No	Comments:		
Final nalysis	Monitoring / F	Further Inspection Requir	ed: Yes	□No			
Ā	Repair / Repl	acement Required:	☐ Yes	□No			
				•			_
	C	ompany	Name		Signature		Date (yyyy/mm/dd)

Note: The person(s) performing the check is responsible for ensuring that the data is transcribed from the handwritten form correctly, and that the analysis results are correct.

Performed By

Checked By

W	Vinnipeg					CTION CABLE	FORM < 1000	V				age able ID:	1 of 1		
t	Facility: N	l 1acLean RPS				Project N	Jame. M	acl ean	. Region	al Pumn			use Electrical U	Ingrade	
Project	Area : Val						No.: 553-2		ricgioni	arr arrip	ing station	valve rioc	ase Electrical C	ppgrade	
	7 11 Oct : Val	veriouse				Tonaci	110 000 1								
	Source:						Dest. / Lo	ad:							
æ	Manufact	urer:			Туре:					Condu	ctor:	Сорр	per 🗌 Alum	ninum	
Cable Data	No. of Conducto	rs:	Size:	,		AWG MCM	Length	:	•	m F	Measure Jacket M		☐ Previou	s Data	
Cabl	Rated Vo	ltage: V	Operating Voltage:	9		V	Date Ir	stalle	d:						
	Installatio	n: Cable Tra] EMT] Steel	Condu		 Alum. Co PVC Co				ot Buried Other:				
u	Physical I	Damage on Expos	ed Ends:		Yes	□No	Cable Id	entific	ation Ta	ag Insta	alled:		☐ Yes	□No	
Visual Inspection	Visual Sig	ns of Overheating	:		☐ Yes ☐ No Cable Supported Appropriately:							☐ Yes	□No		
V Ins	Bend Rad	lius Acceptable:	☐ Yes ☐ No Comments:												
						0	l								
	Test Source: Cable Dest. / Load: Note: Approval of City's Representative is required, prior to leaving cables connected during the test.														
Cable Temperature: °C Temperature Correction Factor for 20°C: Test Voltage									ound all co	nductors	not under te	st for each			
stanc	Test Insula						sistance	(ΜΩ)			Test Sur	nmary			
Resis	Voltage		A-G	IND	B-	GND	C-GN	D	N-G	ND	☐ Test F	-			
ation	V	Reading										er Invest	ive igation Requi	ired.	
nsula	V	Corrected to 20°	С								☐ Test F	Failed			
_	Utilize 10	00VDC Test Volta	ge for 600	V rated	d cable	s, 500VD	C for cable	es rate	ed <= 30	00V.	•				
	Commen	s:													
	Noto: Tor	que check require	d for all o	ables i	Conno	otion Posi	stanco To	et rog	uirod fo	r cablos	2/0 AWC	or largo	r		
nce	Note. Tor	que check required	i ioi aii ca							Cables	4/U AVVG	i or larger	<u>'-</u>		
Connection Resistance	Te	ermination	A			B	nce (μΩ) C	- AS	Leit	1		Torq	ue Check		
on R		Source										[OK		
necti	D	est. / Load											OK		
Con	Comment	s:													
		•					0	001-							
al sis	Cable Re	turned to Service:			Yes	☐ No	Comm	ents:							
Final Analysis	Monitorin	g / Further Inspect	on Requi	red: [Yes	□No									
•	Repair / F	Replacement Requ	ired:		Yes	☐ No									
		Company		Name				Sign	ature			1	Date (yyyy/m	m/dd)	
Perfori	ned By														
Checked By															

	<u> </u>			SPECTION					Page 1 of	1		
V	Vinnipèg	CO	NTROL PO	WER TI	RANSF	ORMI	ER, 600V		ID:			
ect	Facility:	MacLean RPS		Proje	ect Name:	Macl	∟ean Regional Pump	ing Statio	n Valve Hou	se Electrical U	pgrade	
Project	Area :	Valve House		⊺Ten	nder No.: 5	553-20	24				_	
	ı	1		•		,			I			
ıta	Location:					Pri. V Ratin	oltage g:		Sec. Volta Rating:	ige		
PT Data	Manufact	urer:				Pri. F	use Size:		Sec. Fuse Size:			
	Size:			Туре:	(B			Other:				
	Physical	Damage:	Ye	s 🗆 N	lo Defe	ective (Connections/Wiring	1 :		☐ Yes	☐ No	
_ u	-				Gro		and Shorting Con		ns Provide — —			
Visual Inspection		gns of Overheating:	☐ Ye		Con	tact:				☐ Yes	□ No	
N S	Verify Gro	ound Connection:	☐ Ye	s 🗆 N	No Veri	Verify Withdrawal Mechanism Function: ☐ Yes						
	Fuse Sizes Match Drawings:											
nsulation Resistance Test	Test Prepa	e Isolated	ion Posis	tance	Note: Approprior to leavir	ng cables						
istar		Test	Voltage	Insulation Resistance (MΩ) Temperature:				°C				
Res	Pri	mary To GND	1000 VDC				Test Summary ☐ Test Passed					
latior	Sec	ondary To GND	500 VDC				Test Inconclus Further Inves		Required.			
Insu	Prima	ary To Secondary	1000 VDC				☐ Test Failed					
(Comments	:										
	Returned	to Service:	☐ Yes		lo Con	nments	<u> </u>					
nal Iysis	Monitorin	g / Further Inspection	☐ Yes									
Final Analysi	Required											
	Repair / F	Replacement Required:	☐ Yes		10							
		Company	Name			Si	ignature		D	ate (yyyy/mn	n/dd)	
Perfori	med By											
Check	ed By											

,	Winnipeg				(PECTION TRA			₹				Page	1 of 1		
ect	Facility:	MacLe	an RF	S			Project N	lame: M	acLean	Regio	nal Pumpi	ing St	ation Valv	e House	e Electrical	Upgrade	
Project	Area :	Valve I	House				Tender I	No.: 553-2	024								
	Location:					Curre	ent Ratio:		:	A		Volt	age Clas	s:	V		
. Data	Manufact	urer:			Mode	l No.:			Ту	ype:	☐ Bar		Window	(Solid)	☐ Split	Core	
CT	Burden R	ating:			BIL:		kV		Ad	ccura	cy Class:						
	Physical	Damage:] Yes	□No	Clean ar	nd Insp	ect In	sulators:				☐ Yes	□No	
Visual Inspection	Visual Sig			ing:] Yes	□ No				re Corre				☐ Yes	□ No	
Vi	Adequate	Mountin	ıg Supp	oort:] Yes	□No	Commer	nts:								
	ı		Sou	rce:						-							
Test	Test Prepa	aration:		Disconnecte Connected v Isolated		ource	☐ Disc	Dest. / Loa connected inected wi		d Isola		is re	e: Approv quired, properties of the properties o	rior to le	ity's Repre eaving cab e test.	esentative eles	
insulation Resistance Test		Test		Voltag	е		Insul	ation Res	istanc	e (MΩ	2)		Tempera	ature:	°C		
esist		A B C Test Summary															
on R	Prima	ry To GN	D	1000 \	/							Test I			t Passed t Inconclusive ther Investigation Require		
sulati		ary To G		500 V	'								☐ Test	ner inve Failed	estigation	Requirea.	
Ë	Primary 1	To Secon	dary	1000 \	/												
	Comments	:	,														
<u>_</u>	Note: Atta	ch suppo	rting da	ata and satu	ration	curve.											
uratio							Ph	ase							ummary		
on, Saturation Tests				Α		В	!		С			N		Tes	t Passed t Inconclus		
ation ity Te	Calculate													Re	rther Inves quired.	tigation	
Turns Ratio, Excitati and Polarity	Measured Exciting 0													∐ res	t Failed		
Ratio, and	(mA	7)															
ırns F	Polarity C		☐ Ye	es 🗌 No] Yes	□ No	☐ Yes		10	☐ Yes] No				
Ĕ	CT Satu Test Perf		☐ Ye	s No] Yes	□ No	☐ Yes	□ N	1 0	☐ Yes] No				
4=	CT Retur	ned to Se	ervice:			Yes	□No	Commer	nts:								
Final Analysis	Monitorin Required		er Insp	ection		Yes	□No										
Ā	Repair / F	Replacen	nent Re	equired:		Yes	□No										
		Compa	ny		Nam	ne			Signa	ature				Da	ite (yyyy/m	nm/dd)	
Perfo	rmed By														-		
Chec	ked Bv																

,	Vinni	_				ON FO				Page 1 of 2		
·	Vinni	peg		DIGI	TAL	. METE	R			ID:		
Project	Faci	lity: MacLe	ean RPS	F	Proje	ct Name:	MacLea	n Regional Pumping	Station	Valve House	Electrical Upgrade	
Pro	Area	a: Valve	House		Tend	der No.: 5	53-2024					
	Loca	ation:			Cell	#-						
Meter Data		ufacturer:				del:						
	Iviari	ulacturer:			IVIO	der.						
	Co	ver Gasket:	☐ Go	ood	e 🗌	Poor	Cover G	lass:		☐ Good ☐	Acceptable Poor	
Visual Inspection /	Ge Ge	eneral Conditi	on: G	ood	e 🗌	Poor						
Visual spectio	Cle	eanliness (as	found) G	ood	e 🗌	Poor	Unit Clea	aned:	⁄es			
_ <u>_</u>	Co	nnections (as	s found) 🔲 Go	ood	e 🗌	Poor	Connect Torqued		⁄es			
<u> </u>						1	Torquou	•				
Test Meter	Man	ufacturer:				Model:						
řŠ	Calil	bration Date:				Meter c	alibration	must be within one	e year,	unless other	wise specified.	
		Nominal T Value (V)	est Phase	Calibrated Mete Measurement (V)		fleter Und		Difference (V)		Error (%)	Acceptable (See Specs)	
		()		, ,							☐ Yes ☐ No	
	ge	0									☐ Yes ☐ No	
	Voltage										☐ Yes ☐ No	
											☐ Yes ☐ No	
											☐ Yes ☐ No	
											☐ Yes ☐ No	
Accuracy		Nominal T Value (V)	est Phase	Calibrated Mete Measurement (A)		leter Und		Difference (A)		Error (%)	Acceptable (See Specs)	
Α̈́			А								☐ Yes ☐ No	
	int	0	В								☐ Yes ☐ No	
	Current		С								☐ Yes ☐ No	
			А								☐ Yes ☐ No	
			В								☐ Yes ☐ No	
			С								☐ Yes ☐ No	
	Mea	surements Ap	oplicable To:	As-Found A	As-Le	eft	May	check both boxes	if appl	icable.	•	
	Unit	Calibration A	djusted:	☐ Yes ☐ No le	calib	oration wa	s adjuste	ed, complete two fo	rms, o	ne for as-fou	nd, the other for as-	

	<u> </u>		INSF	PECTION	N FORM	Page 2 of 2
W	Vinnipèg		DI	GITAL M	IETER	ID:
s	Returned to S	ervice:	☐ Yes	☐ No	Comments:	
Final nalysis	Monitoring / F	urther Inspection	☐ Yes	□No		
⋖			_			

☐ No

☐ Yes

Repair / Replacement Required:

	Company	Name	Signature	Date (yyyy/mm/dd)
Performed By				
Checked By				

		<u> </u>										Page	Page 1 of 1				
7		nipeg			INSPE EMERGE				IG			-	- I	OI I			
	_											ID:					
Project	Fa	acility:	MacL	ean RPS		Pro	ject Nar	me: N	1acLean I	Regional Pu	mping S	Station Va	lve H	ouse Ele	ectrical	Upgrade	
Pro	Aı	rea:	Valve	House		Tei	nder No	.: 553-	2024								
it	Lo	ocation:				F	ed Fror	n:					(Circuit #	# :		
tery Un Data	M	lanufactu	rer:				Model:					Serial No):				
Battery Unit Data	In	put Volta	ige:	V AC	Input Current:		А	C	Output V	oltage:		V DC	Wat	ttage:		W	
	Q	ty of Inte	rnal La	amps:	Internal Lamp W	/atta(ge:	W	,	Type of Ir	nternal	Lamps:	mps:				
										<u> </u>							_
e s	Q	uantity:			Manufacturer:	Model:											
Remote Fixtures	In	put Volta	ige:	V DC	Input Current:	rent: A Qty of Lamps per Fixt					Fixture	e:					
Ŗ	La	amp Watt	tage:	W	Type of Lamps:				Wire S	ize:	AWG						
		I						1	Į.								_
_		Identific	ation 7	Tag Installed:	☐ Ye	es	☐ No	Lar	nps Prop	perly Aime	d:] Yes	□N	lo
ual :tion	Cleaning	Visual s	igns o	f Moisture:	☐ Ye	es	☐ No	Cor	nnection	s:	☐ Go	ood 🗌 A	ccep	otable [☐ Poo	r	
Visual Inspection /	Clea	Cleanlin	ness (A	As Found):	Good Accept	table Poor Ground Connection: G					ood 🗌 A	ccep	otable [] Poo	r		
=		Comme	nts:			'											
											1						
	Equ	uipment T	Tempe	erature:	${\mathfrak C}$						Test S	Summar	y				
Battery Testing	Tes	t Result	S									st Passe		/e			
Ž,	Stat	ted Desig	gn Tim	ne (From Drawings	s): M	1in						rther Invest Failed	estig	ation R	equired	d.	
3atte	Tim	ne Until La	amps [·]	Turn Off:	M	1in											
	Con	mments:															
							. 0	ommo	ote:								$\overline{}$
al sis	Returned to Service: Yes No Comments:																
Final Analysis	Monitoring / Inspection Required: Yes						10										
٨	Re	pair / Re	placer	ment Required:	☐ Yes		10										
Company Name								Signat	ure				Date (vvvv/m	m/dd)		
Perfo	rmo		p	<i>,</i>	1141110				0.9.10						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	
remo	11116	эч Бу															
Check	ked By																



INSPECTION FORM GROUNDING/BONDING CONNECTION RESISTANCE

Page	1 of 2	
Area:		

Project

Facility: MacLean RPS Project Name: MacLean Regional Pumping Station Valve House Electrical Upgrade

Area: Valve House Tender No.: 553-2024

	Point A	Point B	Resistance (mΩ)		Acce	eptable
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	☐ No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
ks				☐ Yes	□No	☐ Inconclusive
Resistance Checks (Ductor Test)				☐ Yes	□No	☐ Inconclusive
sistance Chec (Ductor Test)				☐ Yes	□No	☐ Inconclusive
esista (Du				☐ Yes	□No	☐ Inconclusive
~				☐ Yes	☐ No	☐ Inconclusive
				☐ Yes	☐ No	☐ Inconclusive
				☐ Yes	☐ No	☐ Inconclusive
				☐ Yes	☐ No	☐ Inconclusive
				☐ Yes	☐ No	☐ Inconclusive
				☐ Yes	☐ No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
				☐ Yes	□No	☐ Inconclusive
	Comments:					



INSPECTION FORM GROUNDING/BONDING CONNECTION RESISTANCE

Page	2 of 2
ID:	

	P	Point A	Point B		Resistance (mΩ)		Acce	ptable
						☐ Yes	☐ No	☐ Inconclusive
						☐ Yes	□No	☐ Inconclusive
						☐ Yes	□No	☐ Inconclusive
						☐ Yes	☐ No	☐ Inconclusive
ks						☐ Yes	□No	☐ Inconclusive
Checl est)						☐ Yes	□No	☐ Inconclusive
Resistance Checks (Ductor Test)						☐ Yes	□No	☐ Inconclusive
Sista (Duc						☐ Yes	□No	☐ Inconclusive
8						☐ Yes	□No	☐ Inconclusive
						☐ Yes	□No	☐ Inconclusive
						☐ Yes	□No	☐ Inconclusive
						☐ Yes	☐ No	☐ Inconclusive
						☐ Yes	☐ No	☐ Inconclusive
	Comments:							
s	Monitoring / Ins	pection Required:	Yes No	Comments:				
Final Analysis	Repair / Replac	ement Required:	Yes No					
_ A								
		T			1			1
		Company	Name			Signature		Date (yyyy/mm/dd)
Performed By								
Checke	ed By							

	<u> </u>		INSP	ECTIC	ON FO	RM		Page 1 of 2			
l v	Vinnipeg		INTELLIC	GENT	OVEF	RLOAD		ID:			
ect	Facility: Ma	acLean RPS		Projec	oject Name: MacLean Regional Pumping Station Valve House Electrical Upgrade						
Project	Area: Va	lve House		Tende	Tender No.: 553-2024						
اً ta	Location:			Cell #	Cell #:						
O/L Data	Manufacturer	:		Mode	el:						
				•							
_ uo	General Co	ndition:	☐ Good ☐ Acceptab	ble 🗌 F	□ Poor						
Visual Inspection / Cleaning	Cleanliness	(as found)	☐ Good ☐ Acceptab	ble 🗌 F	Poor	Unit Cleaned:	☐ Yes				
	Connections	s (as found)	☐ Good ☐ Acceptab	ble 🗌 F	Poor	Connections Torqued:	☐ Yes				
tion	Static IP Add	ress:			Subnet Mask						
Communication Settings	Gateway:				Protocol:						
Com	MAC Address	MAC Address:									
Test Meter	Manufacturer	:			Model:						
Te Me	Calibration Da	ate:			Meter calibration must be within one year, unless otherwise specified.						
ဖ	Type:	☐ Internal to	o O/L		External CT Ratio:						
CTs	External G	round CT·	□ Yes □ No		Ground	CT Ratio:					



INSPECTION FORM INTELLIGENT OVERLOAD

Page	2 of 2	
ID:		

		Verify accu	racy of Intell	igent O/L Measure	ments with th	ne use of software via	the communication	network.			
		Nominal Test Value (A)	Phase	Calibrated Meter Measurement (A)	Intelligent Measurem (A)		Error (%)	Acceptable (See Specs)			
			Α					☐ Yes ☐ No			
	ent	0	В					☐ Yes ☐ No			
Accuracy	Current		С					☐ Yes ☐ No			
Acc			А					☐ Yes ☐ No			
			В					☐ Yes ☐ No			
			С					☐ Yes ☐ No			
	Measurements Applicable To: ☐ As-Found ☐ As-Left May check both boxes if applicable.										
	Unit Calibration Adjusted:										
10	Retu	rned to Service:		☐ Yes ☐	No Comme	ents:					
Final Analysis		itoring / Further In uired:	spection	☐ Yes ☐	No						
⋖	Repa	air / Replacement	Required:	☐ Yes ☐	No						
		Company		Name		Signature	Date	e (yyyy/mm/dd)			
Perfor	med E							. (333)			
Check	ed By	,									

,	<u> </u>			INS	PECTION I	FORM			Page	1 of 6		
V	Vinnipeg				MCC, 600	V			ID:			
ect	Facility: Mad	Lean RPS			Project Name	e: MacLean Re	gional Pun	nping Station Val	ve House	e Electrical Up	ograde	
Project	Area: Valv	re House			Tender No.: 553-2024							
	ļ											
ta	Location:				T		# of C	# of Cells:				
MCC Data	Manufacturer:				Model:							
MC	Rated Voltage:	V	Main Bus I	Rating:		Α	Main Bus	s Neutral Rating	g:	Α		
	Bus Conductor	: Copper	Aluminum	Cui	rrent Withstan	d Rating:	Α					
	Identification T	ag Installed:		☐ Yes	□No	Visual Signs	of Overhe	eating:		☐ Yes	□No	
	Visual Signs of	f Moisture:		☐ Yes	□No	Visual Signs	of Corona	1:		☐ Yes	□No	
	Fuse/Breaker S	Sizes Match Di	awings:	☐ Yes	□No	PT and CT ra	atios matc	h drawings:	□ N/A	☐ Yes	□No	
Visual Inspection / Cleaning	Elevation Draw	vings Correct:		☐ Yes	□No	Cables Supp	orted App	ropriately:		☐ Yes	□No	
	Cleanliness (A	s Found):	☐ Good [Accept	able 🗌 Poor	Insulators Co	ondition:		Good [Acceptable	e 🗌 Poor	
ion / C	Connections:		☐ Good [Accept	able 🗌 Poor	Electro/Mech Interlock Sys			Good [] Acceptable	Poor	
spect	Ground Conne	ction:	☐ Good ☐	Accepta	able 🗌 Poor	Vents/Filters		Good [Acceptable	Poor		
al Ins	Doors Mechan	nical: Good Acc			table Poor Exercise Active Components:					☐ Yes	□No	
Visu	Cell Fit and Ali	gnment:	☐ Good ☐	Accepta	able 🗌 Poor							
	Required Clear Met:	rances are	☐ Good ☐	Accepta	otable Poor							
	Indicating mec	hanisms:	☐ Good ☐	Accepta	able 🗌 Poor	Unit Cleaned	:	es Photograp	oh Take	n: 🔲 Y	⁄es	
	Comments:											
	Type:	Inspecti	on									
/er	☐ Main Break	er Complet	e appropriate	breaker i	nspection forr	n.						
y Pow	Disconnect	Complete	e appropriate	disconne	ct inspection	form.						
Incoming Power		Visual In	spection:	☐ Go	ood	table 🗌 Poor						
lης	☐ Main Lugs	Connect	ions Torqued	:	s				1			
		Connect Resistan As Left			A	В		С		N		



Page	2 of 6
ID:	

	Test Preparatio	Source: Disconnector Connected Isolated	cted d with Source	Cable Dest. / Lo Disconnected Connected w			proval of City's Representative is prior to leaving cables connected during				
est	Temperati	ure: °(0								
ince T	Test Voltage	Insul	ation Resistand Phase To Phas		Test Summar	Test Summary					
sista vork	(dc)	A - B	B - C	C - A	☐ Test Passe						
n Resistar (Buswork)	1000 V				☐ Test Incond	clusive /estigation F	Required.				
Insulation Resistance Test (Buswork)	Test	Insul	ation Resistand Phase To GND	ce (MΩ)	Test Failed	↑ ∐ Test Failed					
lus	Voltage	A - GND	B - GND	C - GND							
	1000 V										
	Comments	Comments:									
<u> </u>	I.		T								
nce est)		Point A	Point B		Resistand (μΩ)	e	Test Summary ☐ Test Passed				
Ground Resistance Checks (Ductor Test)	MCC GND Bus		Facility Groun	nd Electrode			Test Inconclusive Further Investigation Required.				
Res (Duc	MC	C GND Bus	MCC En				Test Failed				
oung		C GND Bus									
ق ق			System	Neutrai							
	Comment	S: 									
	Visual Insp	pect Requirements:	G=Good,	A=Acceptable,	P=Poor Comments	are required	I for all items identified in Poor condition.				
			1. Confirm i	dentification tag	/ lamacoid is installe	ed.					
		2		isual signs of o							
		3	3. Inspect a	nd torque conne	ections.						
ers		4	1. Inspect a	spect and test any electro/mechanical interlocks.							
er Breakers		Ę	5. Confirm o	lisconnect opera	ation.						
er Bı		6	6. Check do	or mechanical c	ondition.						
Feed		7	7. Exercise	circuit breaker.	ouit breaker.						
-		8	3. Confirm o	ables are suppo	orted and routed app	ropriately.					
		9	9. Visually a	ssess the gener	ral condition of the in	stallation.					
	Note:				r Inspection Form for ettings, or > 250A fra		s with separate adjustable Long and				
				Contin	ued on next page						



Page	3 of 6
ID:	

			Continued from previous page										
	ID	Loc./ Cell	Frame Rating (A)	Trip Rating (A)	Manuf.	Model	Trip Unit Type	Inst Setting	Visual Inspection	Cleaned	Comments		
Feeder Breakers													
er Bı													
pee.													
-													
	General Comments:												



Page	4 of 6	
ID:		

	Overcurrent Protection Type:	B=Breaker (Thermal Magnetic), M=Motor Circuit Protector, F=Fuse						
	Overload Protection Type:	T=Thermal, SS=Solid State, I=Intelligent						
	Visual Inspect Requirements:	G=Good, A=Acceptable, P=Poor Comments are required for all items identified in Poor condition						
rs	1.	Confirm identification tag / lamacoid is installed.						
ers / Contactors	2.	Look for visual signs of overheating.						
	3.	Inspect and torque connections.						
	4.	Inspect and test any electro/mechanical interlocks.						
Starters /	5.	Confirm disconnect operation.						
or S	6.	Check door mechanical condition.						
Motor	7.	Exercise circuit breaker.						
	8.	Confirm cables are supported and routed appropriately.						
	9.	Visually assess the general condition of the installation.						
	Note: Comp Starte	lete a Motor Starter Inspection Form for all Motor Starters Size 4 or larger, with VFDs, or with Soft rs.						

	ID			Overcu	urrent Pro	tection	Contactor		Overload			
		Loc./ Cell	Type	Rating (A)	Manuf.	Model	Size / Rating	Type	Model	Visual Insp.	Cleaned	Comments
Motor Starters / Contactors												
ntac												
) -												
rters												
Sta												
lotor												
2												
	General Comments:											



Page	5 of 6	
ID.		

				Overcu	irrent Prof	tection	Contactor		Overload			
	ID	Loc./ Cell	Type	Rating (A)	Manuf.	Model	Size / Rating	Type	Model	Visual Insp.	Cleaned	Comments
ers												
Start												
Motor Starters												
Mc												
	General Comments:											

	<u> </u>		IN	SPECTI	ON FOR	RM	Page 6 of 6
ì	Winnipèg			MCC,	600V		ID:
. <u>s</u>	Returned	to Service:	☐ Yes	□No	Commer	nts:	
Final Analysis	Monitoring	g / Inspection Required:	☐ Yes	☐ No			
Ā	Repair / R	eplacement Required:	☐ Yes	□No			
		Company	Name			Signature	Date (yyyy/mm/dd)
Perfo	ormed By						
Chec	ked By						

V	Vinnipeg				МОТ		SPEC ^T STAR				00V				Page 1 of	2		
	Facility: Ma	acl ea	n RPS									ional	Dumning St	otio		loctrical Un	arado	
Project												ionai	Pumping St	alio	n Valve House E	песинсан ор	grade	
<u> </u>	Area: Va	lve Ho	ouse				re	naer	No.: 5	553-202	:4							
	Load:						Starter	Loca	ation:							Cell #:		
	Manufacturer	:		Тур	e:								Serial #	:				
	Size:		Rate	d Vo	oltage:	\	V	С	urrent	Rating		-	4	Со	ntrol Voltage:		V	
					Detie							Fus	e Mfg.	<u> </u>	_			
_	Circuit	∐Fu	sed Dis	С.	Rating:		Α	۲	use Si	ıze:	Α	Мо	del:					
Starter Data	Protection:	Bre			Rating:		Α		nst.		Α		nufacturer:					
ırter		□ МС	- Р					- 5	etting:			Mod	del:					
Sta	Overload	_	ermal ectronic		Class:	☐ 10 ☐ 20		s	etting	/	Α	Mar	nufacturer:					
	Protection:		elligent		Class.	□ 30 □ U	0 Inknowr		ating:		A	Mod	del:					
	Control Pow		Size:			VA	Sec. V	oltad	ıe:	V	Primar	rv Fu	se:	-	A Secondary	Fuse:		Ą
	Transformer	:			ПА											<u> </u>		
	Current Transformer	s:	Phases	S:	□ B □ C		☐ Non	ie	Ratio):			Ground Fault CT:		Present Not Present	Ratio:		
	l					1	0.							<u>.</u> 	.,	•		
Motor Data	ID:						Size:		ŀ	kW /		ŀ	IP		Voltage:			V
ΣO	Full Load Am	ps:		A S	Service Fac	tor:		C	Other:									
	Starter Identif	ication	Tag In:	stalle	ed:	Y	es [] No		Visual	Signs c	of Ov	erheating:			☐ Yes	N	lo
D	Cleanliness (☐ Good [Suppo					☐ Good ☐ /			
on / Cleaning	Connections				☐ Good [/Mecha			.1/^		<u> </u>		
) Cle										Interlo				N/ A				
ction	Ground Conn				Good [Good D			
edsu	Door Mechan				Good [_ Acc	eptable	; <u> </u>	Poor	Contac	t Alignr	ment	:		☐ Good ☐ /	Acceptable	: P	Poor
Visual Inspecti	Verify O/L ele the load:	ement i	s correc	tly s	sized for		☐ Y	es [□No	Exercis	se Circu	uit Br	eaker/MCF	P/Di	sconnect			Yes
Vis	Cables Supp	orted A	ppropri	ately	<i>'</i> :		☐ Y	es [□No	Unit Cl	eaned:	[☐ Yes P	hote	ograph Taken:	: <u> </u> Y	'es	
	Comments:																	
	•	Test			Α			В			С		Test Sun	nma	ary			
Pole nents	Contact R	esistar	nce (μΩ)									☐ Test F					
Contact/Pole Measurements	Disconnect Resist	/ Breal ance (P										er lı	nvestigation R	equired.		
Col	Fuse Res	sistanc	e (μΩ)										1					

Comments:



INSPECTION FORM MOTOR STARTER, FVNR, 600V

Page	2 of 2	
ID:		

Test	Test Prepa		rce:	ated Disc	Dest. / Loa connected inected wit		prior to la		Representative is required, nnected during the test.
		Test	V	altana		Insu	lation Resistanc	ce (MΩ)	Ground all phases not
sistaı		rest	V	oltage		A B		С	under test!
on Re	Contacto	r Line To GND	100	00 VDC					Test Summary ☐ Test Passed
Insulation Resistance	Contactor	Load To GND	100	00 VDC					Test Inconclusive Further Investigation
lns	Contacto	r Line to Load	100	00 VDC					Required. Test Failed
	Comments	3:			•		•		
	Returned	I to Service:		☐ Yes	☐ No	Comme	nts:		
Final Analysis		ng / Further Inspe	ection	☐ Yes	 □ No	_			
Fir	Required	<u>:</u>				-			
	Repair /	Replacement Re	quired:	☐ Yes	□No				
		Company		Name			Signature		Date (yyyy/mm/dd)
Perfo	rmed By								
Checl	ked By								



INSPECTION FORM AC MOTOR, LOW VOLTAGE

Page:	1 of 2		
ID:			

ţ	Facility: MacLea	ın RPS		Proje	ect Name:	MacLean Regiona	Il Pumping	Station	Valve House Electric	cal Upgrade
Project	Area: Valve H	louse		Tend	der No.: 55	 53-2024				
										
	Size: kW	<i>I</i> /	HP	Voltage:	: 	V	R	P.M:		
Data	Manufacturer:			Model:			S	erial Nu	mber:	
Motor Data	Frame Type:			Service Factor:			С	ther:		
-	Cooling:	☐ Air ☐ Fan	# Cooling Fans:			nding terial:		_		
	Motor Identification	n Tag Instal	lled:	Yes	□No	Visual Signs of C	Overheatii	ng:		Yes
ing	Connections:		☐ Good ☐ A	Acceptable	☐ Poor	Air Baffles:			☐ Good ☐ Acc	ceptable Poor
Clean	Paint:		☐ Good ☐ A	Acceptable	☐ Poor	Filter Media:		□ N/A	☐ Good ☐ Acc	ceptable Poor
ion / (Cooling Fans:	N	J/A ☐ Good ☐ A	Acceptable	☐ Poor	Fan Controls:		□ N/A	☐ Good ☐ Acc	ceptable Poor
Visual Inspection / Cleaning	Anchorage/Alignm	ent:	☐ Good ☐ A	Acceptable	Poor					
ial Ins	Ground Connectio	n:	☐ Good ☐ A	Acceptable	☐ Poor					
Visu	Mechanical/Electri Operation:	cal Noise D	ouring \square	Yes	□No	Lubrication Requ	uired:		☐ Ye	s 🗌 No
	Cleanliness (As Fo	ound):	☐ Good ☐ /	Acceptable	Poor	Unit Cleaned:	☐ Yes	Photo	graph Taken:	☐ Yes
		Test	Winding			Resistance (MΩ))		Dielectric	Polarization
	Stator Winding	Voltage (Vdc)	Temperature (°C) 3	0 Sec	1 min.		in. (a)	Absorption Ratio	Index (a)
ance		500							-	-
esiste		-	40							
Insulation Resistance		500							-	-
sulati		_	40							
		500							-	-
Winding			40							
	Notes:									
			s and calculation of							1 a d
	Test Summary	<u>U</u>	Test Passed	rest ind	conclusive	. Further Investig	jation Red	quirea.	Test Fail	ea
		Re	sistance (μΩ)			Test Summa	ry			
Ð	A - B		B – C	Δ	- C	☐ Test Passe				
ng	A-D		D-0		•	II Test Incon	nclusiva			
Winding Resistance	A-B	+	B-0			☐ Test Incon Further In ☐ Test Failed	nvestigation	on Requ	ired.	



INSPECTION FORM AC MOTOR, LOW VOLTAGE

Page:	2 of 2		
ID:			

	□ Not An	nliaahla							
uc	☐ Not Ap	plicable						laciatanas (MO)	
ulati	E	Bearing		Test Volt (Vdc)		Bearing Temperature (°C)	1 min.	esistance (MΩ)	rrected to 40°C
Bearing Insulation Resistance				500					
earin Re				500					
В	Test Sum	mary		Test Pass	ed	☐ Test Inconclusiv	e. Further Investigation Re	equired.	Test Failed
			,						
	☐ Not Ap								
	Actual W	/inding Temp	eratu	re:		°C	Actual Bearing Temperatu	ıre	°C
	RT	-D	F	Resistance (Ω)		Calculated Temperature (°C)	RTD	Resistan (Ω)	Ce Calculated Temperature (°C)
ance									
RTD Resistance									
TD F									
Ľ									
	Test Sum	mary		Test Pass	ed	☐ Test Inconclusiv	e. Further Investigation Re	equired.	Test Failed
Note:	Test co	nnection res	istand	ce of bolted	conne	ctions. Report on ca	ble inspection sheet.		
	Determent	0				V DN-	Comments:		
- <u>s</u>		I to Service:			Ц	Yes No			
Final Analysis	Monitorin Required	g / Further Ir :	nspec	tion		Yes No			
<i>'</i>	Repair / I	Replacement	t Requ	uired:		Yes No			
		Company		ı	Name		Signature		Date (yyyy/mm/dd)
Perfo	rmed By								
Check	ced By								
Note:	The perco	n(c) perform	ing th	a chack is r	aenan	sible for ensuring the	t the data is transcribed fro	m the handwritte	on form correctly, and



INSPECTION FORM NON-FUSIBLE DISCONNECT SWITCH, 600V

Page	1 of 2	
ID:		

ct	Facility: MacLean F	RPS		ı	Project Name	: MacLean Re	gional Pumping Stat	ion Valve H	ouse Electrical Upgrade
Project	Area: Valve Hous	se			Tender No.:	553-2024			
					1				
Disconnect Data	Manufacturer:				Model:				
Disco	Rated Voltage:	V	Current Ra	ting:	Α		Interrupting Ratin	g:	А
	Identification Tag Inst	alled:		☐ Yes	□ No	Visual Signs	of Overheating:		☐ Yes ☐ No
ning	Cleanliness (As Foun					Support Insu		∏ Good	d ☐ Acceptable ☐ Poor
Clear	Connections:	,			able 🗌 Poor	Blade Condit			☐ Acceptable ☐ Poor
Visual Inspection / Cleaning	Ground Connection:		☐ Good ☐] Accepta	ble Poor	Verify Blade Operation:	Mechanical	☐ Good	d ☐ Acceptable ☐ Poor
lnsp	Door Mechanical:		☐ Good ☐] Accepta	ble 🗌 Poor	Unit Cleaned	:	☐ Yes	
/isual	Fit Plumb & Square:] Yes □ No	Unit Lubricate	ed:	☐ Yes	
	Cables Supported Ap	propriate	ly:] Yes ☐ No	Other:			
			tance (μΩ)			Test Sumn	narv		
lade nce	Δ	(A	s Left)		C	Test Sumn	-		
witchblade Resistance	A	(A			С	Test Pa: Test Inc	ssed onclusive Investigation Req	uired.	
Switchblade Resistance	A Comments:	(A	s Left)		С	☐ Test Par ☐ Test Inc ☐ Further	ssed onclusive Investigation Req	uired.	
Switchblade Resistance		(A	s Left)		С	☐ Test Par ☐ Test Inc ☐ Further	ssed onclusive Investigation Req	uired.	
	Comments:	ource:	as Left)	Disco	C est. / Load: nnected ected with Load	☐ Test Pa: ☐ Test Inc ☐ Further ☐ Test Fai	ssed onclusive Investigation Req led Jote: Approval of 0	City's Repr	esentative is required, ted during the test.
nce Test	Comments: Test Preparation: So	ource:	B Isolated ::	☐ Discor	est. / Load: nnected ected with Lo	Test Pac Test Inc Further Test Fai	ssed onclusive Investigation Req led Jote: Approval of 0	City's Repr	
nce Test	Comments:	ource:	B Isolated	☐ Discor	est. / Load: nnected ected with Lo	Test Par Test Inc Further Test Fai	ssed onclusive Investigation Req led lote: Approval of (City's Repr les connec	eted during the test.
nce Test	Comments: Test Preparation: So	ource: [isconnect	B Isolated ::	☐ Discor	est. / Load: nnected ected with Lo	Test Par Test Inc Further Test Fai	ssed onclusive Investigation Required Investigation Invest	City's Repress connect	eted during the test. Ground all phases not
nce Test	Comments: Test Preparation: So Di	ource: [isconnect	Isolated Open Voltage	☐ Discor	est. / Load: nnected ected with Lo	Test Par Test Inc Further Test Fai	ssed onclusive Investigation Required Investigation Invest	City's Repress connect	Ground all phases not under test! Fest Summary Test Passed Test Inconclusive Further Investigation
Test	Comments: Test Preparation: So Di Test Disconnect Line To GI	ource: [isconnect	Isolated Open Voltage	Discording Conne	est. / Load: nnected ected with Lo	Test Par Test Inc Further Test Fai	ssed onclusive Investigation Required Investigation Invest	City's Repries connec	Ground all phases not under test! Fest Summary Test Passed Test Inconclusive



INSPECTION FORM NON-FUSIBLE DISCONNECT SWITCH, 600V

Page	2 of 2
ID	

al rsis	Returned	to Service:	☐ Yes] No	Comments:	
Final Analys	Monitoring	g / Further Inspection Requir	ed: Yes] No		
Ā	Repair / R	eplacement Required:	☐ Yes] No		
I			I.,			-
		Company	Name	Signature		Date (yyyy/mm/dd)
Perfo	rmed By					
Check	ked By					

	<u> </u>	_							ON FOI					Pag	e 1 of 2	2		
	Winnip	oèg			P	ANELBO	OAR	RD, I	LOW V	OLT	AGE	E		ID:				
ect	Facil	ity: N	/lacLea	n RPS			I	Proje	ect Name	: Ma	ıcLean	Regional Pu	umping Stat	ion Va	alve Hous	e Electrical	Upgı	rade
Project	Area	: V	alve Ho	ouse				Tend	der No.:	553-2	024							
<u> </u>	1		'				•	ī			1				Ī			
	Loca	tion:						Fed	l From:						No. of 0	Circuits:		
ıta	Manı	ufactur	er:					Мо	del:				Serial	No:				
Panelboard Data	Rate	d Volta	ige:	V	Curre	nt Rating:				Α		Withsta	ind Rating:		,	Ą		
lboa	□s	ingle P	hase	☐ 3 Ph	ase, 3 V	Vire	□ 3	Phas	se, 4 Wir	е	Neu	tral Bonde	d to Groun	d	☐ Yes	☐ No		
Pane	□м	lain Lu	gs															
	□М	lain Br	eaker:	Rating:	А	Manuf	actur	er:			1	Model:			Inst.	Setting:		
	Com	plete s	eparate	inspectior	form (F	-BKR-MC	-LV)	for m	nain brea	ker if	>= 25	50A, or has	long, shor	t, or g	ground fa	ult setting	s.	
Identification Tag Installed: ☐ Yes ☐ No Visual Signs of Overheating: ☐ Yes											☐ Yes		□ No					
u / u			s of Mois				Yes		□ No			ns of Coror						□ No
Visual Inspection / Cleaning				Match Dr	awings:		_ Yes		□ No			pported Ap		/:		☐ Yes		□ No
Insp	Fuse/Breaker Sizes Match Drawings: Cleanliness (As Found): Good Acc										nection	•••			Good [Acceptab		
/isual C	Door Mechanical: Good Good Acce															Acceptat		
>				Breakers:			Yes		□ . oo.		ments					, 1000ptas		
		0.007		2.04.10.0.						-								
	Test			urce: Disconne	cted	Note: A	Appro	val o	of City's F	Repre	senta	tive is	Equipme	pment Temperature: °C				;
est	Prepar	ation:		Connecte Source Is	d with	required during t								perature Correction or to 20°C:				
stance Test						ulation R							Test Sur					
sistan	Tes Volta				Groun	d all Pha		not u	nder tes	it!			☐ Test F					
			A-G			SND		C-G	1	_		GND	☐ Test I Furth	ncon ner In	clusive vestigati	on Require	ed.	
Insulation Re	RDG 20°C RDG 20°C							OG	20°C	R	DG	20°C	☐ Test F	ailed	d			
lnsu	Test Voltages: 120-300V → 500 VDC Test Voltages									301-	600V	→ 1000 VI	C Test Vo	oltage				
	Comments:											7 .000 1.						
	00111111	orno.																
	Breakers < 100A and Without Inst. Setting List by model of breaker. Multiple breakers of varying ampacity may be listed per line.																	
ទ	ĺ			i			, ,		acity maj iterrupti	<u> </u>				Nat				
eake	Туре	IVI	anufact	urer	IVIO	del Series			ating (k		P	ositions/C	ircuits	Not	es ———			
ad/Feeder Breakers	A B																	
Feed	С																	
ad/F														1				

E F



INSPECTION FORM PANELBOARD, LOW VOLTAGE

Page	2 of 2	
ID:		

	Breakers >= 100A or with Inst. Setting List each breaker individually. Complete separate inspection form (F-BKR-MC-LV) for breaker if >= 250A, or has long, short, or ground											
	List each b		ividually. Comple	te separate inspe	ection form	(F-BKR-M	C-LV) for b	reaker if >= .	250A, or I	nas long, short, or ground		
Load/Feeder Breakers	ID	Pos.	Manufacturer	Model	Trip Rating (A)	Int. Rating (kA)	Inst. Setting	Separate Form	Notes			
Bre												
eedeı												
ad/F												
Ľ												
	Т											
_ <u>:s</u>	Returned	to Service:		☐ Yes ☐	No Co	mments:						
Final Analysis	Monitoring	g / Inspection	on Required:	☐ Yes ☐	No							
₹	Repair / R	eplacemer	nt Required:	☐ Yes ☐	No							
		I _										
		Company	/	Name		Sigi	nature			Date (yyyy/mm/dd)		
Perfo	rmed By											
Chec	ked By											



INSPECTION FORM POTENTIAL TRANSFORMER, 600V

Page	1 of 2	
ID:		

	1					1									
Project	Facility: MacL	ean RP	S			Project I	Name:	MacLean	Regional F	oumpin	ng Station	Valve I	House Electrical Upgrade		
Pro	Area: Valve	House				Tender	No.: 5	53-2024							
	T							5		1	Ī				
ıta	PT Location or [Designation	on:	T				Pri. Volta Rating:	ige			Sec. V Rating	Voltage ng:		
PT Data	Manufacturer:			Catalogu	e #:			Pri. Fuse	Size:			Sec. F	Fuse Size:		
_	Size:	١	/A		Туре	э:				(Other:				
		"			_							,			
_	Physical Damag	je:			Yes	☐ No		y Connec					☐ Yes ☐ No		
Visual Inspection	Visual Signs of 0	Overheati	ing:] Yes	□No	Grounding and Shorting Connections Provide						e ☐ Yes ☐ No		
Vis	Verify Ground C	onnection	n:] Yes	□No	Verit	y Withdra	wal Mech	anism	Functio	n:	☐ Yes ☐ No		
	Fuse Sizes Mate	ch Drawir	ngs:] Yes	□No	Com	ments:							
· 	·					•			(#						
Test Preparation: Disconnected prior to leaving cables connected du Disconnected prior to leaving cables connected du Test Preparation: Disconnected with Source Isolated															
nce	Test		Vo	Itage		Insul	ation	Resistand	ce (MΩ)		Ter	nperat	ure: °C		
sista				itago	P	T 1		PT 2	F	PT 3	Tes	st Sum	mary		
n Re	Primary To GND 100			000 V								Test P	assed conclusive		
ulatio	Secondary To	GND	5	00 V									er Investigation Required.		
lus	Primary To Seco	ondary	10	000 V											
	Comments:														
	_)													
	Test	urce: Disconne Connecte Isolated		Source											
arity						Pi	nase						Test Summary		
lo P			PT	1		Р	T 2			PT	3		☐ Test Passed ☐ Test Inconclusive		
o and	Calculated Ratio												Further Investigation Required.		
Turns Ratio and Pol									☐ Test Failed						
Polarity Correct Yes No						Yes	[□ No	☐ Ye	es	□ N	No			
(
PT Returned to Service:							Com	ments:							
Monitoring / Further Inspection Yes						□No	1								
¯ ¥	Repair / Replace	ement Re	quired:		Yes	□No									
	Comp	nany		Nam	ne			Sign	ature				Date (yyyy/mm/dd)		



INSPECTION FORM POTENTIAL TRANSFORMER, 600V

Page	2 of 2	
ID:		

Performed By		
Checked By		

W	/innipeg		TI	RANSF				ON FO		/ VO	LTA	GE		Page	1 of 2		
		. 5												ID:			
Project	Facility: Ma	cLean RI	PS ——				Project	t Name:	Mad	Lean F	Region	al Pui	nping Stat	ion Valve H	ouse Electr	ical Upg	rade
Pr	Area: Val	ve House	9				Tende	er No.: 5	53-202	24							
	KVA:		Dhaa				D=:					V	Seconda	ry	V		
	KVA:		Phas	se.			Pilinai	y Voltag	e.			V	Voltage:				
Data	Manufacturer:		<u> </u>				Type:						Serial Nu	ımber:	nber:		
rmer	Primary Winding:	□ Δ □ Υ		econdary inding:		H₽		edance:			%Z	Tem	p Rise:	9	C K Fact	or:	
Transformer Data	Winding Mater	rial:	Сорре	er 🗌 Alu	ıminum		•										
Tra	No Load Tap	Тар		1	2		3	4		5					Tap Setti	ng	
	Changer	Voltage													(As Four	ıd):	
			ı			-		ı			l	l					
6	Transformer lo	dentificatio	on Tag	Installed	d:	☐ Y	es [□No	Visua	Sign	s of C	verh	eating:			Yes	□ No
anin	Bushings:			☐ Goo	d 🗆 A	ccept	table [] Poor	Suppo			s:		☐ Good	d	ptable [☐ Poor
n / Cle	Paint:			☐ Goo	d 🗆 A	ccept	table [] Poor	No Lo Chan		р		□ N/A	√ ☐ Good	☐ Accep	otable [☐ Poor
Visual Inspection / Cleaning	Fans:		□ N/A	☐ Goo	d 🗆 A	ccept	table [] Poor	Fan C	ontrol	s:		□ N/A	√ ☐ Good	☐ Acce	otable [☐ Poor
lnsp	Temp. Gauge:	: [□ N/A	☐ Goo	d 🗆 A	ccept	table [] Poor	Conne	ection	s:			☐ Good	☐ Acce	otable [☐ Poor
/isual	Temp. Gauge: ☐ N/A ☐ Good Ground Connection: ☐ Good				d 🗆 A	ccept	table [] Poor	Neutra	al Bon	ded t	o Gro	und:		N/A 🗌	Yes [□No
	Cleanliness (A	s Found):		☐ Goo	d 🗌 A	Acceptable Poor Unit Cl					d:	□ Y	es Pho	tograph Ta	aken:	☐ Ye	S
	0 " 10	1141	/ N 1 /														
ι	Operational C																
Inspection	Primary Voltag		H1:H2:		V	H2:H	l3:		V H3:	H1:			V Measu	red at:			
edsu	Secondary Vo	oltage: >	<1::		V	X2:_	_ :		V X3:	<u>_:</u>			V Measu	red at:			
	Current:	F	Ph A:		Α	Ph B	:		A Ph	C:			A Measu	red at:			
Operational	Tap Setting:				itoring I	Řeco	mmeno Tap.	led.		Тар	Settii	ng (A	s Left):				
	Thermographic Inspection Performed:					tach i parat	report tely	Results		No Iss Poten			d dentified.				
Φ	ņ									Re	esista	nce	(MΩ)		1	Dielectr	ic
Insulation Resistance		Windin	ıg		Te	est Vo (Vd	oltage lc)		30 s				60 s	sec.	Abso	orption 60s/30s	
on Res	Primary to G	round, Sed	conda	ry Guard	ed												
ulatic	Secondary to	Ground,	Prima	ry Guard	ed												
Insi	Primary to Se	econdary,	Grour	nd Guard	ed												

Primary to Secondary, Ground Guarded



INSPECTION FORM TRANSFORMER, DRY TYPE, LOW VOLTAGE

Page	2 of 2	
ID:		

ĺ		Returned	I to Service:	☐ Yes	□No	Comme	nts:	
	Final Analysis	Monitorin Required	ng / Further Inspection I:	☐ Yes	□No	=		
	∢	Repair / I	Replacement Required:	☐ Yes	☐ No			
							,	
			Company	Name			Signature	Date (yyyy/mm/dd)
	Perfori	ned By						
	Checked By							