

3 Buel Street, Unit 4, Wallingford, CT 06492 203-269-8778

Maintenance Testing

For

State of Connecticut – Department of Corrections 201 West Main Street Niantic, CT

AT

York Correctional Facility 201 West Main Street Niantic, CT

Project 21-268

June 2021



SCOPE:

Southern New England Electrical Testing performed relay and vacuum breaker testing. Testing was performed in accordance with NETA specifications.

RESULTS:

SNEET completed the required testing and found the following:

Multi Relay Test R22, 23kV Switchboard:

The main breaker will trip before the feeder breakers because of its settings, recommend performing a coordination study.

Multi Relay Test 24, 23kV Switchboard:

The C-A voltage relay is out of pickup tolerance and should be replaced. It is on a higher tap to match results.

Multi Relay Test R33, 23kV Switchboard:

The main breaker will trip before the feeder breakers because of its settings, recommend performing a coordination study.

Multi Relay Test R35, 23kV Switchboard:

The main breaker will trip before the feeder breakers because of its settings, recommend performing a coordination study.

Multi Relay Test R37, 23kV Switchboard:

The main breaker will trip before the feeder breakers because of its settings, recommend performing a coordination study.

Multi Relay Test R40, 23kV Switchboard:

The main breaker will trip before the feeder breakers because of its settings, recommend performing a coordination study.

Respectfully Submitted,

Southern New England Electrical Testing LLC

An Independent Electrical Testing Company

TESTING GUIDELINES

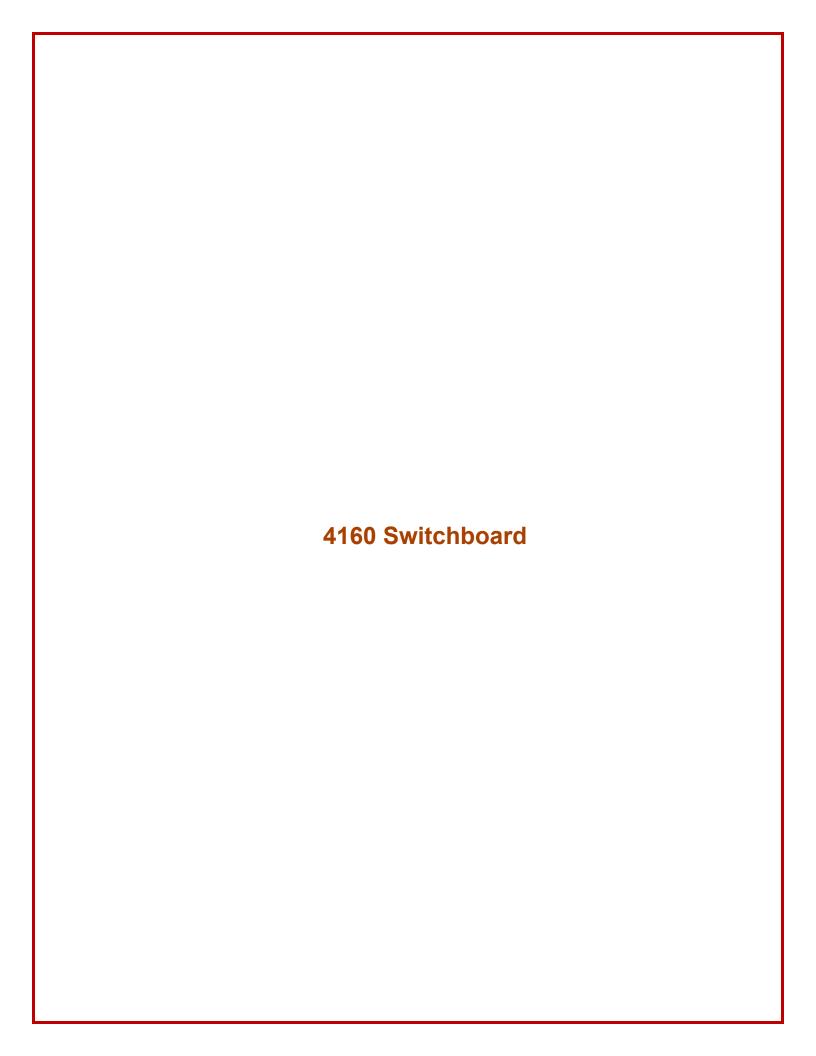
Based on NETA and NFPA recommendations, Southern New England Electrical Testing suggests that your electrical equipment be tested at the following frequency in order to keep your electrical system in good working order. (Frequency in Months)

*Recommended Frequencies could change based on site policies (or manufacturer recommendations) and site conditions such as

humidity and dirt levels. Any major changes or electrical "events" to your system should prompt follow-up testing.

<u>Equipment</u>	Visual	Vis/Mechanical	Vis/Mech/Electrical
Switchgear & Switchboard Assemblies	12	12	24
Small Dry Type Transformers	2	12	36
Large Dry Type Transformers	1	12	24
Liquid Filled Transformers	1	12	24
Low Voltage Cables	2	12	36
Medium/High Voltage Cables	2	12	36
Metal Enclosed Busways	2	12	24
LV Air Switches	2	12	36
MV Metal Enclosed Switches	-	12	24
MV & HV Open/Oil/Vacuum/SF6 Switches	1	12	24
Cutouts	12	24	24
LV Breakers	1	12	36
MV Air or Oil Breakers	1	12	36
MV Vacuum Breakers	1	12	24
HV Breakers	1	12	24
Extra HV SF6 Breakers	1	12	12
Circuit Switchers	1	12	12
Network Protectors	12	12	24
Relays (ALL types)	1	12	12
Instrument Transformers	12	12	36
Metering Devices	12	12	36
Step Voltage Regulators	1	12	24
Induction Regulators	12	12	24
Current Regulators	1	12	24
Load Tap Changers	1	12	24
Grounding Systems	2	12	24
Ground Fault Protection Systems	2	12	12
AC/DC Motors & Generators	1	12	24
LV & MV Motor Starters and MCCs	2	12	24
Adjustable Speed Drive Systems	1	12	24
Batteries & Battery Chargers	1	12	12
Rectifiers	1	12	24
Surge Arresters	2	12	24
Capacitors & Capacitor Control Devices	1	12	12
Reactors (Dry-type)	2	12	24
Reactors (Liquid-Filled)	1	12	24
Outdoor Bus	1	12	36
Engine Generator	1	2	12
Uninterruptible Power Systems	<u>.</u> 1	12	12
Automatic Transfer Switches	1	12	12
Telemetry/Pilot Wire SCADA	1	12	12
Automatic Circuit Reclosers (oil/vacuum)	1	12	24
Automatic Line Sectionalizers (oil)	1	12	24
EMF Testing	12	12	12
Fluid Samples on ALL Oil-Filled Equipment	-	-	12
Infrared Scanning on ALL Equipment	_	-	12

The National Fire Protection Agency states that "The difficulty of obtaining an outage should never be a factor in determining the frequency of testing and maintenance. Equipment for which an outage is difficult to obtain is usually the equipment that is most vital in the operation of the electrical system. Consequently, a failure of this equipment would most likely create the most problems relative to the continued successful operation of the system." (NFPA 70B, 2019 Edition, Section 11.4)





															Test	#	R1	C	of L	
Customer	Sta	ate of	СТ							Date	• [6/30/2	2021	Job	#	21-26	68		
Address	20	1 Wes	st Mai	n Stre	eet,	Niantic, 0	CT							Tempe	eratur	e	20°C	;		
Owner/Use	er Yo	rk Co	rrectio	nal F	acili	ty							Date La	ast Insp	ectio	n			5/2/2	2016
Address	20	1 Wes	st Mai	n Stre	eet,	Niantic, 0	CT						Last Ins	pection	Job	#	16-2	71		
Equipment	Location	on	416	0 Swi	tchb	oard														
Circuit Ider	ntificatio	n	52-G	1																
Relay Iden	tificatio	n	Ove	curre	nt				П	CT Rati	0 [250:5	j		PT F	Ratio	35:	1		
Relay I			' ion				5.			4 54/075		_				ĺ				
Manufactu		Basle				Type F	Phase ange Pha			1-51/27F 5 - 12 am			٠.	Ground lange G			NA NA			
Control Vo	О.	125 V	-				Phase	156	_	erse	μs			Groun		u	NA			\longrightarrow
Use	itage		curren	it			ange Pha	se		40 LT				ange G		d	NA			
Relay Type)	Solid	State				ct Book P		9 1	1372 00 9	999			ct Book			NA			\neg
Setting	s '							1	_					1						
	ICS		α			aneous	0	Λ.	x I	Tap S	_	<u> </u>	-	A (X	Ti		ial Se			
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As Left	NA	>	90	>90	0	>90	NA	4		4	-	1	NA	30	T	30	- ;	30	N	۱A
Visual	Insp	ecti	on																	
		AØ	_	СØ	G	7			Γ	AØ BØ	СØ	G	7				ΑØ	ВØ	CØ	G
Cover Gas	ket	Х	Х	Х	ΝA					ХХ	Х	NA	Dis	sc Clea	rance	•	NA	NA	NA	NA
Glass		Х	Х	Х	NΑ	ν S _I				NA NA	NA	NA	Ru	st			Х	Χ	Х	NA
Foreign Ma	aterial	Х	Х	Х	NΑ	В	earing Co	nditio	n	NA NA	NA	NA]							
Routin	е Ма	inte	nar	ıce																
		AØ	_	CØ	G	7			ſ	AØ BØ	СØ	G	7				ΑØ	ВØ	CØ	G
Glass Clea	ined	X	Х	Х	NΑ		onnection	s Tigh	nt	ХХ	Х	NA	Ins	ulation	Resi	st.	NA	NA	NA	NA
Case Clea	ned	Х	Х	Х	NΑ	ι Ta	aps Tight		T	ХХ	Х	NA	Tri	p Circu	it		*	*	*	NA
Relay Clea	ined	Х	Х	Х	NΑ	C	ontacts C	leane	d	ХХ	Х	NA] _							
Remarks	The T	rip cir	cuit w	as no	t tes	ted at th	is time. C	atalog	y Nu	ımber Ph	ase:	B1E	B5P B1N	I0F						
		., .																		
Phase time	es: 300	%- 3.6	seco	nds,	400	%- 2.5 se	econds													
Test O	pera	tion	s as	s Fo	our	nd (Tii	me in	Sec	on	ıds)										
,						Tests	Instant	aneou	ıs		IC	S		Pick			ckup	,		
ı		up Te		P.U.		P.U. %	Pickup	Dro Ou		Pickup	Dr	op ut	Seal In	@50° 2 A @			75% \ @90 '			
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B Phase	4.00		NA NA	3.5		2.35	>90	Ok		NA	N		NA	2.0			3.06	+		
C Phase	4.00		۱A	3.4		2.33	>90	Ok		NA	N		NA	2.0		_	3.06	+		
Ground	NA		۱A	NA		NA	NA	NA		NA		Α	NA	N/			NA	\top		
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ı	Pickup Tests P.U. %						Pickup	Dro Ou		Pickup	Dr O	op ut	Seal In	2 A @			090 °			
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B Phase	4.00		NA NA	3.5		2.35	>90	Ok		NA		A	NA	2.0			3.06	+		\dashv
C Phase	4.00					2.33	>90	Ok		NA	_	A	NA	2.0			3.06	+		\dashv
Ground						NA		NA	_	Α	NA	N/			NA	T		\dashv		
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Customer	Sta	ate of	СТ							Dat	e [6/30/2	2021	Job #	‡ [21-26	38		
Address	20	1 Wes	st Mai	n Stre	et, N	Viantic, C	CT							Tempe	ature		20°C			
Owner/Use	er Yo	rk Coı	rectio	nal F	acilit	ty			_				Date La	ast Inspe	ection	1			5/2/2	2016
Address	20	1 Wes	st Mai	n Stre	et, N	Viantic, C	CT						Last Ins	pection	Job #	ŧ [16-27	71		
Equipment	Location	n	4160	0 Swi	tchb	oard														
Circuit Ider	ntificatio	n	52-G	2																
Relay Iden	tificatio	า	Over	curre	nt				\neg	CT Rat	io [250:5	5	F	PT Ra	atio	35:	1		
Relay I									_							г.				
Manufactu		Basle			_	Type F				1-51/27 5 - 12 am		_	, ,	Ground	اممسم		NA NA			
Control Vo	-	125 V					ange Pha Phase	156	-	erse	ips			Range G			NA NA			
Use	itage	Overd		t			ange Pha	se		40 LT				ange Gr			NA			
Relay Type	,	Solid	State		一		t Book P			1372 00	999			ct Book		<u> </u>	NA			
Setting	s '	_						1	_		o									_
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Specified	ICS	-	W	DK	_	CØ	G	AØ	-	שם	-	Ø	G	AØ	+	שפ		Ø		<i></i>
As Found	NA	>	90	>9()	>90	NA	4	\neg	4	١.	4	NA	30		30	3	30	N	IΑ
As Left	NA	>	90	>9()	>90	NA	4		4	1	4	NA	30	,	30	3	30	N	IΑ
Visual	Insp	ecti	on								-									
		ΑØ		CØ	G				Γ	AØ BØ	CØ	G	7			Γ	ΑØ	ВØ	СØ	G
Cover Gas	ket	X	Х	Х	NA	M	oisture		٦t	ХХ	Х	NA	Dis	sc Clear	ance	٦ŀ	NA	NA	NA	NA
Glass		Х	Х	Х	NA	<u> </u>				NA NA	NA	NA	Ru	ıst			Χ	Χ	Χ	NA
Foreign Ma	aterial	Х	Х	Х	NA	В	earing Co	nditio	n	NA NA	NA	NA								
Routin	е Ма	inte	nar	ıce																
		ΑØ	ВØ	CØ	G					AØ BØ	CØ	G	1			Γ	ΑØ	ВØ	CØ	G
Glass Clea	ined	Х	Х	Х	NA		onnection	ıs Tigl	nt	ХХ	Х	NA	Ins	sulation l	Resis	t.	NA	NA	NA	NA
Case Clea		X	Х	Х	NA		aps Tight		ᅫ	X X	Х	NA		p Circuit		╝	*	*	*	NA
Relay Clea	ined	Х	Х	Х	NA	. C	ontacts C	leane	d	Х Х	Х	NA	_							
Remarks	The T	rip circ	cuit wa	as no	t tes	ted at thi	is time. C	atalog	Į Nu	ımber Ph	nase:	B1E	B5P B1N	I0F						
									_											
Phase time	es: 300°	%- 3 f	seco	nds	400%	%- 2.5 se	econds		_											_
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	Pickı	ıp Tes	sts	P.U.		P.U. %	Pickup	Dro		Pickup	_	ор	Seal In	@50%	, V	@ 7	5% V			
	Tap 1	.	p 2	300		400%		Ou				ut		2 A @	60	3 A @	<u> </u>	/		
A Phase	4.01	N	lΑ	3.5	5	2.37	>90	Ok	(NA	Ν	lΑ	NA	2.06	3	3.	80	I		
B Phase	4.00	N	ΙA	3.5	7	2.37	>90	Ok	(NA	Ν	ΙA	NA	2.02	<u>-</u>	3.	05			
C Phase	4.00		IA IA	3.5		2.37	>90	Ok		NA	4-	IA.	NA	2.04			06	\bot		
Ground	NA	N	IA	NA	١	NA	NA	NA	١.	NA	Ν	IA	NA	NA		N	IA			
Test O	perat	tion	s as	s Le	ft (Time	in Se	con	ds	s)										
			Ī	Tin	ning	Tests	Instant	aneou	ıs		IC	CS		Picku			kup	Т		
	Pick	ıp Tes	sts	P.U.	%	P.U. %	Pickup	Dro		Pickup		ор	Seal In	@50% 2 A @		@ 7: 3 A @	5% ั∨ ฐอก ง			
	Tap 1	_	p 2	300	_	400%		Ou				ut		V				_		
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B Phase							Ok		NA NA	4-	IA IA	NA NA	2.02	_		05	+		_	
C Phase Ground	4.00 NA		IA IA	3.5 NA		2.37 NA	>90 NA	OK NA		NA NA		IA IA	NA NA	2.04 NA			06 IA	+		\dashv
2.00/10	ound NA NA NA NA NA							. 4/				•	, , , ,	14/3		- '	•			



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Customer	Sta	ate of	СТ							Dat	e [6/30/2	2021	Job #	# [21-26	38		
Address	20	1 Wes	st Mai	n Stre	et, N	Viantic, C	СТ							Tempe	ature		20°C			
Owner/Use	er Yo	rk Coı	rrectio	nal F	acilit	:у							Date La	ast Insp	ection	۱ [5/2/2	2016
Address	20	1 Wes	st Mai	n Stre	et, N	Niantic, C	CT						Last Ins	pection	Job #	# [16-27	71		
Equipment	Location	on	416	0 Swi	tchb	oard										-				
Circuit Ider	ntificatio	n	52-G	3																
Relay Iden	tificatio	n	Over	curre	nt					CT Rat	io [250:5	5	F	PT Ra	atio	35:	1		
Relay I																г.				
Manufactui		Basle			_	Type F				1-51/27 5 - 12 am			, ,	Ground Range G	cound		NA NA			
Control Vol	-	125 V					ange Pha Phase	156	_	erse	ips			Ground			NA NA			
Use	itage		curren	t			ange Pha	se		40 LT				ange G		L	VA.			
Relay Type	,	Solid	State		寸		t Book P		9 1	1372 00	999			ct Book		<u> </u>	NA			
Settings	s '	1								_	o				—					
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Specified	100	+ '	\D	DX	+	CØ	0	AL	_	שם	\vdash	,,0	0	AD	Ŧ,	שכ		· <u>v</u>	H	
As Found	NA	>	90	>9()	>90	NA	4		4	١.	4	NA	30	,	30	3	30	N	IΑ
As Left	NA	>	90	>9()	>90	NA	4		4		4	NA	30	,	30	3	30	N	IA
Visual	Insp	ecti																		
	-	<u> </u>									CØ	G	7			Γ	ΑØ	ВØ	CØ	G
Cover Gas	ket	Х	Х	Х	NA	М	oisture			ХХ	Х	NA	Dis	sc Clear	ance		NA	NA	NA	NA
Glass		Х	Х	Х	NA	Spiral Spring			NA NA	4-	4		ıst			Х	Χ	Χ	NA	
Foreign Ma	aterial	X	Х	Χ	NA	В	earing Co	nditio	n	NA NA	NA	NA	_							
Routin	е Ма	inte	nar	ıce																
		ΑØ	ВØ	CØ	G] _				AØ BØ							ΑØ	ВØ	CØ	G
Glass Clea		X	Х	Х	NA		onnection	ıs Tigh	nt	X X	Х	NA	4 —	sulation		st.		NA	NA	NA
Case Clear		X	X	X	NA		aps Tight		_	XX	X	NA		p Circui		╝	*	*	*	NA
Relay Clea		<u> </u>	X	Х	NA		ontacts C			ХХ	X	NA								
Remarks	The T	rip circ	cuit w	as no	t tes	ted at thi	is time. C	atalog	y Nu	mber Ph	nase:	B1E	B5P B1N	10F						
Phase time	es: 300°	%- 3.6	seco	nds,	400%	⁄₀- 2.5 s∈	econds													
Test O	perat	tion	s as	s Fo	un	d (Tir	ne in :	Sec	on	ds)										
						Tests	Instant				IC	cs		Picku	ıp	Pic	kup	Т		
	Pick	ир Те	sts	P.U.		P.U. %	Pickup	Dro	р	Pickup	Dr	ор	Seal In	@50%			5% V			
	Tap 1	Та	ıp 2	300	%	400%		Ou	ıt		С	ut		2 A @ V	60	3 A @	<u> </u>	/		
A Phase	4.00		1A	3.4		2.30	>90	Ok		NA		ΙA	NA	2.10			80			
B Phase	4.01	_	IA.	3.4	_	2.30	>90	Ok		NA		IA.	NA	2.08			09	+		_
C Phase Ground	4.02 NA		IA NA	3.4 NA		2.30 NA	>90 NA	OK NA		NA NA	4-	IA IA	NA NA	2.08 NA			09 IA	+		
Ground	INA	1 '	N/A	14/	`	INA	INA	147	`	INA	, i	V A	IVA	INA	l		-			
Test O	perat	tion	s as	s Le	ft (Time	in Se	con	ds	5)										
,				Tin P.U.		Tests	Instant	aneou	ıs		_	CS		Picku			kup	,		
	Pick	P.U. %	Pickup	Dro Ou		Pickup		op Out	Seal In	@50% 2 A @		<i>ا ب</i> س 2 A 3	5%V 2090∖							
A Phase	Tap 1 Tap 2 300 /6 400 /6							Ok		NA		JA	NA	V 2.10			08	+		_
B Phase								Ok		NA NA		IA IA	NA NA	2.10			08	+		\dashv
C Phase	4.02	_	IA		_	2.30	>90			NA	4-	IA	NA	2.08			09	+		\dashv
Ground	NA		۱A						NA		lΑ	NA	NA			IΑ	T		\dashv	
	_						_		_		_			-		_	-			



			203.209.8778								Test #	R4	of	
Customer	Stat	e of CT					Dat	te 🗀	6/30/2	2021	Job#	21-26	8	
Address	201	West Ma	ain Street,	Niantic, C	T			·	-	Temper	ature	20°C		
Owner/Use	r York	c Correct	tional Facil	ity					Date La	ast Insp	ection		5/2	2/2016
Address	201	West Ma	ain Street,	Niantic, C	T				Last Ins	pection	Job#	16-27	'1	
Equipment	Location	1 416	30 Switchb	oard								-		
Circuit Iden	ntification	52-	·G1											
Relay Ident	tification	Ne	utral Over	urrent			CT Ra	tio 250:5	5		PT Ratio	o NA		
Relay I	nform	nation	1	Туре		51	18		Catalog	n Numb	ar 🔽	43S414	1	
Manufactur	er A	ABB		Tap R	ange		5 - 2.0 a	mps	Oatalog	, INGILID	٠ - ا	730717		_
Control Vol	tage 1	25 VDC		Curve	-		hort				Ė			
Use		1N over		Inst R	-		X - 20 X				<u> </u>			
Relay Type	9 5	Solid Stat	te	Instruc	ct Book	 7.	2.1.7-14				L			
Setting	js	Inst	Тар	Time										
	ICS	Setting	Setting	Dial										
Specified As Found	NA	20 X	0.6	10										
As Found As Left	NA	20 X	0.6	10										
710 2011			0.0											
Visual	Inspe	ction												
Cover Gas	ket	Х		Foreign N	1aterial	Χ	_	Spiral Sprir		NA	_	sc Clear	ance	NA
Glass		Х		Moisture		Х	E	Bearing Co	ndition	NA	Ru	st		Х
Routin	e Mai	ntena	nce											
Glass Clea	ned	Χ		Relay Cle	aned	Х	[Taps Tight		Х	Ins	ulation	Resist.	NA
Case Clear	ned	Χ	[Connection	ons Tight	Χ	(Contacts C	leaned	Χ	Tri	p Circuit		*
Remarks	The Tri	p circuit	was not te	sted at thi	s time.									
Trip times:	300%- 0) 85 seco	nds 400%	5- 0.65 se	conds									
Test O	perati	ons (Time i	n Seco	onds)									
			Timing	Tests	Instant	aneous		ICS						
I		Tests	P.U. %	P.U. %	Pickup	Drop	Pickup		Seal In					
	Tap 1	Tap 2	300%	400%	40 :	Out		Out						
As Found As Left	0.60	NA NA	0.83	0.67 0.67	12.1 12.1	OK OK	NA NA	NA NA	NA NA					
AS Leit	0.00	INA	0.03	0.07	12.1	OK	INA	INA	INA					
As Found														
As Left														
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Remarks														
														
Submitted	By Ct-	ın MacM	illan		_			E~:	ipment U	sad I	Aanta NA	TS 500	n	
Submitted	⊔y ∥⊙la	iii iviacivi	ıııdı i					⊏qu	iibiii c iii O	ocu ∥I\	nanta W	1000	U	



		4	03.269.8778							Т	Test#	R5	of	
Customer	State	e of CT					Date		6/30/2		Job#	21-26	i8	
Address			n Street,	Niantic, C	T				-	Гетрега	ature	20°C		
Owner/Use	_		onal Facili							ast Inspe			5/2	2016
Address				Niantic, C	T				Last Ins			16-27	' 1	
Equipment	Location	4160) Switchb	oard										
Circuit Ider	ntification	52-0	32											
Relay Iden	tification	Neu	tral Overc	urrent			CT Ratio	250:5	j	F	PT Ratio	NA NA		
Relay I	nform	ation		Туре		51	S		Cataloc	Numbe	er 4	43S414	.1	_
Manufactu	rer A	BB		Tap Ra	ange		5 - 2.0 am	ps	Oatalog	, ivallibe	" -	730717		
Control Vo	Itage 1	25 VDC		Curve			nort				Ĺ			
Use		1N overc		Inst Ra	ange		X - 20 X							
Relay Type	∍ S	olid State	:	Instruc	t Book	7.2	2.1.7-14				L			
Setting	JS ICS	Inst Setting	Tap Setting	Time Dial										
Specified														
As Found	NA	20 X	0.6	10										
As Left	NA	20 X	0.6	10										
Visual	Inspe	ction												
Cover Gas	ket	Χ		Foreign M	laterial	Х		oiral Sprir		NA	Dis	c Clear	ance	NA
Glass		Χ	L	Moisture		Χ	Ве	earing Co	ndition	NA	Ru	st		Х
Routin			_	Relay Cle	anod	I X	IΤΑ	aps Tight		Х	lne	ulation	Posist	NA
Case Clea		X	L	Connection		X		ontacts C	leaned	X		p Circuit		*
Remarks	The Trip	circuit w	as not tes	sted at this	s time.									
Trip times:	300%- 0	.85 secor	nds, 400%	- 0.65 se	conds									
Test O	perati	ons (1	ime ir	n Seco	nds)									
						anaalia		ICS					1	
			Timing	Tests	Instant	aneous		100						
ļ	Pickup		P.U. %	P.U. %	Instant Pickup	Drop	Pickup	Drop	Seal In					
As Found	Tap 1	Tap 2	P.U. % 300%	P.U. % 400%	Pickup	Drop Out	·	Drop Out						
As Found As Left	Tap 1	Tap 2 NA	P.U. % 300% 0.83	P.U. % 400% 0.66	Pickup 12.0	Drop Out OK	NA	Drop Out NA	NA					
As Found As Left	Tap 1	Tap 2	P.U. % 300%	P.U. % 400%	Pickup	Drop Out	·	Drop Out						
	Tap 1	Tap 2 NA	P.U. % 300% 0.83	P.U. % 400% 0.66	Pickup 12.0	Drop Out OK	NA	Drop Out NA	NA					
	Tap 1	Tap 2 NA	P.U. % 300% 0.83	P.U. % 400% 0.66	Pickup 12.0	Drop Out OK	NA	Drop Out NA	NA					
As Left	Tap 1	Tap 2 NA	P.U. % 300% 0.83	P.U. % 400% 0.66	Pickup 12.0	Drop Out OK	NA	Drop Out NA	NA					
-	Tap 1	Tap 2 NA	P.U. % 300% 0.83	P.U. % 400% 0.66	Pickup 12.0	Drop Out OK	NA	Drop Out NA	NA					
As Left As Found As Left	Tap 1	Tap 2 NA	P.U. % 300% 0.83	P.U. % 400% 0.66	Pickup 12.0	Drop Out OK	NA	Drop Out NA	NA					
As Left As Found	Tap 1	Tap 2 NA	P.U. % 300% 0.83	P.U. % 400% 0.66	Pickup 12.0	Drop Out OK	NA	Drop Out NA	NA					
As Left As Found As Left	Tap 1	Tap 2 NA	P.U. % 300% 0.83	P.U. % 400% 0.66	Pickup 12.0	Drop Out OK	NA	Drop Out NA	NA					
As Left As Found As Left	Tap 1	Tap 2 NA	P.U. % 300% 0.83	P.U. % 400% 0.66	Pickup 12.0	Drop Out OK	NA	Drop Out NA	NA					



			203.269.8778							Т	est#	R6	of	
Customer	Sta	te of CT					Date	•	6/30/2	.021	Job#	21-26	8	
Address	201	West N	lain Street,	Niantic, C	T				Т	Tempera	ture	20°C		
Owner/Use	er Yor	k Correc	tional Facil	ity					Date La	st Inspe	ction		5/2	2/2016
Address	201	West N	lain Street,	Niantic, C	T				Last Insp	ection .	Job#	16-27	1	
Equipment	t Location	n 41	60 Switchb	oard										
Circuit Ider	ntification	n 52	!-G3											
Relay Iden	itification	Ne	eutral Overd	current			CT Rat	io 250:5	5	F	T Ratio	NA		
Relay I	Inforn	natio	n	_			-				_			_
Manufactu	_	ABB		Type Tap R	ange	51	IS 5 - 2.0 ar	nne	Catalog	Numbe	r 44	43S414	1	
Control Vo	- H	125 VDC)	Curve	ange	_	nort	прз						
Use	-	51N ove	rcurrent	Inst R	ange	2 :	X - 20 X							
Relay Type	e	Solid Sta	ate	Instruc	t Book	7.	2.1.7-14							
Setting	10													
Octing		Inst Settin	Tap g Setting	Time Dial										
Specified	ICS	Octuri	g octang	Diai										
As Found	NA	20 X	0.6	10										
As Left	NA	20 X	0.6	10										
\/:aal	l a a	4 !												
Visual	inspe	ction	1											
Cover Gas	sket	Χ		Foreign M	laterial	Χ		piral Sprir		NA		c Cleara	ince	NA
Glass		Х	Ĺ	Moisture		Х	В	earing Co	ndition	NA	Rus	st		Х
Routin	e Mai	ntena	ance											
Glass Clea	aned	Х		Relay Cle	aned	Х	Т	aps Tight		Х	Insu	ulation F	Resist.	NA
Case Clea	ined	Х		Connection	ns Tight	Х	C	ontacts C	leaned	X	Trip	Circuit		*
Remarks	The Tri	ip circuit	was not te	sted at thi	s time.									
Trip times:	: 300%- (0.85 sec	onds, 400%	6- 0.65 se	conds									
1														
Test O	perat	ions	(Time i	n Seco	onds)									
			Timing	g Tests	Instant	aneous		ICS						
•	Picku	p Tests	P.U. %	P.U. %	Pickup	Drop	Pickup		Seal In	I				
,	Tap 1	Tap 2		400%		Out		Out						
As Found	0.60	NA	0.82	0.66	12.6	OK	NA	NA NA	NA					
As Left	0.60	NA	0.82	0.66	12.6	OK	NA	NA	NA					
As Found		+												
As Left														
Domorko					-					-		-		
Remarks														
					-									



			203.269.8778								Test#	R7	of	
Customer	Stat	e of CT					Da	te	6/30/2	2021	Job#	21-268	3	
Address	201	West N	lain Street,	Niantic, C	T				-	Temper	ature	20°C		
Owner/Use	er Yorl	c Correc	ctional Facil	ity					Date La	ast Insp	ection		5/2	2/2016
Address	201	West N	lain Street,	Niantic, C	T				Last Ins	pection	Job#	16-27	l	$\overline{}$
Equipment	Location	1 41	60 Switchb	oard										$\overline{}$
Circuit Ider	ntification	52	2-G1											
Relay Iden	tification	R	everse Pow	er			CT Ra	tio 250:5	5		PT Ratio	35:1		
Relay I	nform	natio	n	т							T-	0714470	•	
Manufactu	_	ABB		Type Tap R	ange		2R 3 - 150 w	/atts	Catalog	j Numb	er 4	37W479	U	_
Control Vo		4 VDC		Curve	ungo		efinite	ratio			_ h			_
Use	Ē	Reverse	Power	Inst R	ange	N/	A							
Relay Type	9	Solid Sta	ate	Instruc	t Book	7.	.8.1.7-1							
Cottino														
Setting		Inst	Tap	Time										
0 :5 1	ICS	Settin	g Setting	Dial										
Specified As Found	NA	NA	20	10										
As Left	NA	NA	20	10										
									I			JL.		
Visual	Inspe	ction	1											
Cover Gas	ket	Х		Foreign M	1aterial	Х	5	Spiral Sprir	ng	NA	Dis	c Cleara	nce	NA
Glass		Х		Moisture		Х	Ī	Bearing Co	ndition	NA	Ru	st		Х
			_											
Routin	e Mai	nten	ance											
Glass Clea	aned	Х		Relay Cle	aned	Х	F	Taps Tight		Х	Ins	ulation F	esist.	NA
Case Clea	ned	Х		Connection	ons Tight	Х	(Contacts C	leaned	Χ	Trip	Circuit		*
Remarks	The Tri	n circuit	was not te	sted at thi	s time									
	1	,												
Test O	perati	ons	(Time i	n Seco	onds)									
			-				1	100			1		1	
7	5			Tests		aneous	5	ICS						
	Tap 1	Tests Tap 2	P.U. % 2 300%	P.U. % 400%	Pickup	Drop Out	Pickup	Drop Out	Seal In					
As Found	20.64	NA	9.87	9.85	NA	NA	NA	NA	NA					
As Left	20.64	NA	9.87	9.85	NA	NA	NA	NA	NA					
									1		1			
As Found														
As Left														
Remarks														
Submitted	By Sta	ın MacN	Millan					Equ	ipment U	sed [Manta M	TS 5000		



			203.269.8778							T	est#	R8	of	
Customer	Stat	e of CT					Date	е	6/30/2	2021	Job#	21-268	3	
Address	201	West Ma	ain Street,	Niantic, C	T				٦	Tempera	ature	20°C		
Owner/Use	er York	c Correct	ional Facil	ity					Date La	ast Inspe	ection		5/2	2/2016
Address	201	West Ma	ain Street,	Niantic, C	T				Last Ins	pection .	Job#	16-271	<u> </u>	
Equipment	Location	1 416	0 Switchb	oard										
Circuit Ider	ntification	52-	G2											
Relay Iden	tification	Re	verse Pow	er			CT Rat	io 250:5	5	F	T Ratio	35:1		
Relay I	nform	nation	1	_							_			
Manufactu	_	ABB		Type Tap R	ongo		2R 3 - 150 wa	atta	Catalog) Numbe	er 4	37W479	0	_
Control Vo		4 VDC		Curve	ange		efinite	allo			-			_
Use	-	Reverse I	Power	Inst Ra	ange	N/	Ą							
Relay Type) S	Solid Stat	e	Instruc	t Book	7.	8.1.7-1							
Sottino														
Setting		Inst	Tap	Time										
0	ICS	Setting	Setting	Dial										
Specified As Found	NA	NA	20	10										
As Left	NA	NA	20	10										
						I			JI			ļ.		
Visual	Inspe	ction												
Cover Gas	ket	Х	Г	Foreign M	1aterial	Х	S	piral Sprir	ng	NA	Dis	c Cleara	nce	NA
Glass		Х		Moisture		Х		earing Co		NA	Rus	st		Х
D			_											
Routin	e Mai	ntena	nce											
Glass Clea	ned	Х	Ī	Relay Cle	aned	Х	Т	aps Tight		Х	Ins	ulation R	esist.	NA
Case Clea	ned	Χ		Connection	ons Tight	Х	C	Contacts C	leaned	Χ	Trip	Circuit		*
Remarks	The Tri	p circuit	was not tes	sted at thi	s time.									
Test O	perati	ons (Time ii	n Seco	onds)									
	-	-	Timino	Tests	Instant	aneous		ICS					ı	
1	Dickur	o Tests	P.U. %	P.U. %	Pickup	Drop	Pickup	_	Seal In					
	Tap 1	Tap 2	300%	400%	Покир	Out	Тіскир	Out	Seal III					
As Found	19.74	NA	9.84	9.84	NA	NA	NA	NA	NA					
As Left	19.74	NA	9.84	9.84	NA	NA	NA	NA	NA					
İ												1		
As Found														
As Left														
Remarks														
Submitted	By Sta	ın MacM	llan					Equ	ipment U	sed N	lanta M	TS 5000		



			203.269.8778							Т	est#	R9	of	
Customer	Sta	te of CT					Date	е	6/30/2	2021	Job#	21-268	3	
Address	201	West M	ain Street,	Niantic, C	T				٦	Гетрега	iture	20°C		
Owner/Use	er Yor	k Correc	tional Facil	ity					Date La	ast Inspe	ection		9/27	7/2016
Address	201	West M	ain Street,	Niantic, C	T				Last Ins	pection .	Job#	16-471	I	
Equipment	Location	n 41	60 Switchb	oard										
Circuit Ider	ntification	า 52	-G3											
Relay Iden	tification	Re	verse Pow	er			CT Rat	io 250:5	5	P	T Ratio	35:1		
Relay I	nforn	natio	า	_							_			_
Manufactu	_	ABB	-	Type Tap R	ongo		2R 3 - 150 wa	atta	Catalog	Numbe	r 4:	37W479	0	_
Control Vo	- H	24 VDC		Curve	ange		efinite	allo						_
Use	· ·	Reverse	Power	Inst Ra	ange	N/	Ą							
Relay Type	e [Solid Sta	te	Instruc	t Book	7.	8.1.7-1							
Cottino														
Setting		Inst	Tap	Time										
0 '6 1	ICS	Setting	Setting	Dial										
Specified As Found	NA	NA	20	10										
As Left	NA	NA	20	10										
									JI					
Visual	Inspe	ection	1											
Cover Gas	ket	Х		Foreign M	1aterial	Х	S	piral Sprir	ng	NA	Dis	c Cleara	nce	NA
Glass		Х		Moisture		Х	В	earing Co	ndition	NA	Rus	st		Х
D		. 4												
Routin	e iviai	ntena	ance											
Glass Clea	aned	Х		Relay Cle	aned	Х	Т	aps Tight		Х	Insi	ulation R	esist.	NA
Case Clea	ned	Χ		Connection	ons Tight	Х	C	Contacts C	leaned	Χ	Trip	Circuit		*
Remarks	The Tr	ip circuit	was not te	sted at thi	s time.									
Test O	perat	ions (Time i	n Seco	onds)									
			Timing	Tests	Instant	aneous	I	ICS						
1	Picku	p Tests	P.U. %	P.U. %	Pickup	Drop	Pickup	_	Seal In					
	Tap 1	Tap 2		400%	Покар	Out	Покар	Out	ocai iii					
As Found	19.67	NA	10.15	10.14	NA	NA	NA	NA	NA					
As Left	19.67	NA	10.15	10.14	NA	NA	NA	NA	NA					
As Found														
As Left														
Remarks														
Submitted	By Sta	an MacN	lillan					Equ	ipment U	sed M	anta M	TS 5000		



			203.269.8778							Т	est#	R10	of	
Customer	Stat	te of CT					Date	•	6/30/2	.021	Job#	21-268		
Address	201	West N	lain Street,	Niantic, C	Т				Т	Tempera	iture	20°C		
Owner/Use	er Yor	k Correc	tional Facil	ity					Date La	st Inspe	ection		5/2	2/2016
Address	201	West M	lain Street,	Niantic, C	T				Last Insp	ection .	Job#	16-271		
Equipment	Location	n 41	60 Switchb	oard										
Circuit Ider	ntification	52	-G1											
Relay Iden	tification	Re	everse Var				CT Rati	io 250:5	5	P	T Ratio	35:1		
Relay I	nforn	natio	า	_							-			_
Manufactu	_	ABB		Type Tap R	anne		2R 3 - 150 wa	atte	Catalog	Numbe	r 4	37W4790)	_
Control Vo	-	24 VDC		Curve	ange		efinite	2113						_
Use		Reverse	Var	Inst R	ange	N/	4							
Relay Type	9 [5	Solid Sta	ite	Instruc	t Book	7.	8.1.7-1							
Setting	10													
Setting		Inst Setting	Tap Setting	Time Dial										
Specified	ICS	Setting	g Setting	Diai										
Specified As Found	NA	NA	20	10										
As Left	NA	NA	20	10										
	_		•						JĮ.					
Visual	Inspe	ection	1											
Cover Gas	ket	Х		Foreign M	laterial	Х	S	piral Sprir	ng	NA	Dis	c Cleara	nce	NA
Glass		Х		Moisture		Х	В	earing Co	ndition	NA	Rus	st		Х
Dautin	- M-:													
Routin	e iviai	ntena	ance											
Glass Clea	aned	Х		Relay Cle	aned	Х	Т	aps Tight		Χ	Insi	ulation R	esist.	NA
Case Clea	ned	Х		Connection	ns Tight	Х	С	ontacts C	leaned	X	Trip	Circuit		*
Remarks	The Tri	p circuit	was not te	sted at thi	s time.									
Test O	perati	ions	(Time i	n Seco	nds)									
			Timing	Tests	Instant	aneous		ICS						
•	Picku	p Tests	P.U. %	P.U. %	Pickup	Drop	Pickup		Seal In					
	Tap 1	Tap 2		400%		Out	1	Out						
As Found	18.60	NA	11.72	11.72	NA	NA	NA	NA	NA					
As Left	18.60	NA	11.72	11.72	NA	NA	NA	NA	NA					
As Found As Left				_					-					
AS Leit														
Remarks														
Submitted	By Sta	an MacM	lillan					Equ	ipment Us	sed M	anta M	TS 5000		



			203.269.8778							-	Γest#	R11	of	
Customer	Stat	e of CT					Da	te	6/30/2	2021	Job#	21-26	8	
Address	201	West M	ain Street,	Niantic, C	T					Tempera	ature	20°C		
Owner/Use	r Yorl	Correc	tional Facil	ity					Date La	ast Inspe	ection		5/2	2/2016
Address	201	West M	ain Street,	Niantic, C	T				Last Ins	pection	Job#	16-27	1	
Equipment	Location	1 416	30 Switchb	oard										
Circuit Ider	ntification	52-	-G2											
Relay Iden	tification	Re	verse Var				CT Ra	tio 250:5	5	-	PT Ratio	0 35:1		
Relay I	nforn	natior	1	Туре		31	2R		Catalo	g Numbe	or [7	137W479	20	_
Manufactur	rer /	ABB		Tap R	ange		3 - 150 w	/atts	Oatalo	y Marriso	" [10/11/	, o	_
Control Vol	Itage 2	4 VDC		Curve		D	efinite				Î			
Use		Reverse		Inst Ra	_	N/					Ļ			
Relay Type	9 8	Solid Sta	te	Instruc	t Book	7.	8.1.7-1				L			
Setting	js	Inst	Тар	Time							1			
İ	ICS	Setting		Dial										
Specified														
As Found	NA	NA	20	10										
As Left	NA	NA	20	10										
Visual	Inspe	ction												
Cover Gas	ket	Х	Г	Foreign M	1aterial	Х	(Spiral Sprir	ng	NA	Dis	sc Clear	ance	NA
Glass		Х		Moisture		Х		Bearing Co	ndition	NA	Ru	ıst		Х
Routin	e Mai	ntena	nce											
Glass Clea	nod	Х	Г	Relay Cle	anod	Х	F	Taps Tight		Х	Inc	sulation F	Pociet	NA
Case Clear		X	L	Connection		X	<u> </u>	Contacts C		X		p Circuit		*
									!					
Remarks	The Tri	p circuit	was not tes	sted at thi	s time.									
Test O	norati	one (Tima iı	n Sacc	nde)									
1631 0	perati	0113 (musj									
_				Tests		aneous		ICS						
		Tests	P.U. %	P.U. %	Pickup	Drop Out	Pickup	Drop Out	Seal In					
As Found	Tap 1 19.08	Tap 2 NA	300% 11.49	400% 11.49	NA	NA	NA	NA	NA					
As Left	19.08	NA	11.49	11.49	NA	NA	NA	NA	NA					
				_		!			1			1	<u>l</u>	
As Found														
As Left														
Remarks														
- tomanio														
Submitted	By Sta	ın MacM	illan					Equ	ipment U	sed N	lanta M	ITS 5000)	



			203.269.8778							Te	est#	R12	of	
Customer	State	e of CT					Date	,	6/30/2	021 J	ob#	21-26	8	
Address	201	West Ma	ain Street,	Niantic, C	T				Т	emperat	ure	20°C		
Owner/Use	er York	Correct	ional Facili	ty					Date La	st Insped	ction		5/2	/2016
Address	201	West Ma	ain Street,	Niantic, C	Т				Last Insp	ection J	ob#	16-27	1	
Equipment	Location	416	0 Switchb	oard										
Circuit Ider	ntification	52-	G3											
Relay Iden	tification	Rev	erse Var				CT Rati	o 250:5	5	P.	T Ratio	35:1		
Relay I	nform	ation		Туре		32	2R		Catalog	Number	4:	37W479	10	_
Manufactu	rer A	BB		Tap R	ange		3 - 150 wa	atts	00.0.09		F	0		
Control Vo	-	4 VDC		Curve			efinite							
Use		everse \		Inst Ra	-	N/					<u> </u>			_
Relay Type	e S	olid Stat	е	Instruc	t Book	7.	8.1.7-1							
Setting		Inst	Тар	Time										
Charified	ICS	Setting	Setting	Dial										
Specified As Found	NA	NA	20	10										
As Left	NA	NA	20	10										
Visual	Inspe	ction					,		,			- I		
Cover Gas	ket	Х	Г	oreign M	laterial	Х	S	piral Sprir	ng	NA	Dis	c Cleara	nce	NA
Glass		Х		Moisture		Х		earing Co		NA	Rus	st		Х
Routin	e Mair	ntena	nce											
Glass Clea	aned	Х	Г	Relay Cle	aned	Х	T	aps Tight		Х	Insi	ulation F	Resist.	NA
Case Clea	ned	X	•	Connectio	ns Tight	Х	С	ontacts C	leaned	Χ	Trip	Circuit		*
Remarks	The Trir	circuit v	vas not tes	tod at thi	e tima									
Kemarks	THE THE	Circuit	vas not tec	stou at trii	J time.									
Test O	perati	ons (Time ir	n Seco	nds)									
			Timing	Tests	Instant	aneous		ICS						
,	Pickup		P.U. %	P.U. %	Pickup	Drop Out	Pickup	Drop Out	Seal In					
As Found	Tap 1 18.48	Tap 2 NA	300% 11.48	400% 11.48	NA	NA	NA	NA	NA				-	
As Left	18.48	NA	11.48	11.48	NA	NA	NA	NA	NA NA					
									· · · · · ·	1				
As Found														
As Left														
Remarks														



			20)3.269.8	3778									Te	est#	R13	0	f Γ	\neg
Customer	Stat	e of C	CT						$\overline{}$	Date	Г		6/29/2	2021 J	ob#	21-2	68		
Address	201	West	Maiı	n Stre	et, N	Niantic, (CT							Tempera	ature	20°C)		
Owner/Use				nal F									Date La	ast Insped				5/2/20	016
Address						viantic, (T.							pection J		16-2	71		
Equipment	P.	le:) Swit									Luotino	pection o		110 2	., .		_
Circuit Ider		in in	52-G		CHID	Jaiu													_
										C D-4:	. 17	000	-		T Datia	N. A			
Relay Iden		Į.		e Ov	ercui	rent			C	Γ Ratio	0 [1	000	5	Р	T Ratio	NA	١		
Relay I	ntorm	nati	on			Type I	Phase	5	1 I				Туре	Ground		NA			
Manufactui	_	BB					ange Pha	se 1	.5 - 6	amp	S			ange Gro	ound	NA			
Control Vol		25 VI					Phase	<u> </u>	ivers					Ground		NA			
Use)verci		t	Ц		ange Pha	_	X - 2			_		ange Gro		NA			
Relay Type	<u>-</u>	olid S	state			Instru	ct Book P	nase 7	.2.1.	7-14			Instru	ct Book G	Fround	NA			
Setting	S			Inst	anta	neous				Tap S	etting	g		1	Time [Dial S	etting		
	ICS	A!	Ø	BØ	Ď	CØ	G	AØ	Е	ЗØ	C	Ø	G	AØ	BØ	1	CØ	G	j
Specified																			
As Found	NA	20		20 2	_	20 X	NA	6		6	6		NA	7	7		7	N/	
As Left	NA	20	Х	20	X	20 X	NA	6		6	6)	NA	7	7		7	N/	4
Visual	Inspe	ctio	n																
		ΑØ	ВØ	CØ	G] _			ΑØ	ВØ	CØ	G	<u></u>			ΑØ	ВØ	CØ	G
Cover Gas	ket	Х	Χ	Х	NA		oisture		Х	Х	Χ	NA	. —	sc Cleara	nce	NA	NA		NA
Glass		X	Х	Х	NA		piral Sprir	_	NA	NA	NA	NA	Ru	st		Χ	Χ	Х	NA
Foreign Ma	aterial	Х	Х	Χ	NA	В	earing Co	ndition	NA	NA	NA	NA	_						
Routin	e Mai	nte	nan	се															
		ΑØ	ВØ	СØ	G	<u> </u>			ΑØ	ВØ	CØ	G]			ΑØ	ВØ	CØ	G
Glass Clea		Х	Χ	Χ	NA		onnection	s Tight	Х	Х	Χ	NA	-	sulation R	esist.	NA	NA		NA
Case Clea		Х	Х	Х	NA		aps Tight		Х	Х	Х	NA	Tri	p Circuit		*	*	*	NA
Relay Clea	ined	Х	Х	Χ	NA	С	ontacts C	leaned	Х	Х	Χ	NA	J						
Remarks	The Tri	o circ	uit wa	as no	t tes	ted at th	is time. P	hase Ca	talog	Num	ber- 4	443T	1241						
																			_
Phase time	as: 300%	_ 4 1	SACO	nde	400°	6-34 se	econde												_
Instantane				,															_
,								0											
Test O	perati	ons	as						nas	5)				•					
ı	Diokur	. Too	to	P.U.		Tests P.U. %		aneous	Di	ckup	IC		Sool In						
	Pickur Tap 1	Tap		300		400%	Pickup	Drop Out	PI	скир	Dro Oı		Seal In						
A Phase	5.99	N.		4.2		3.43	80.3	OK		NA	N/	Α	NA				+		\dashv
B Phase	6.01	N.		4.2		3.42	79.8	OK	4-	NA	N/		NA				+		\dashv
C Phase	6.00	N.	_	4.2	5	3.42	79.8	OK	1	NA	N/	Α	NA						_
Ground	NA	N.	A	NΑ	١.	NA	NA	NA	ı	NA	N/	A	NA						
Test O	norati	one	. 20	۰۱۰	ft /	Timo	in Sa	cond	e)										
1631 0	perati	OH	as T			Tests		aneous	"		IC			I			1		\neg
j	Pickup	n Tee	ts	P.U.		P.U. %	Pickup	Drop	Pi	ckup	Dro		Seal In	ł					
	Tap 1	Tap		300		400%	1 lokup	Out	['	onup	Oi		Jour III						
A Phase	5.99	N.		4.2		3.43	80.3	OK		NA	N/	A	NA						\dashv
B Phase	6.01	N.	A	4.2		3.42	79.8	OK	1	NA	N	Α	NA				\top		\dashv
C Phase	6.00	N.	A	4.2	5	3.42	79.8	OK	I	NA	N/	A	NA						
Ground	NA	N.	A	NA	\	NA	NA	NA	١	NA	N/	A	NA						



			203.207.0770				_				Test #	R14	of	
Customer	State	e of CT					Dat	е 🗀	6/29/2	2021	Job#	21-268	3	
Address	201	West Ma	in Street,	Niantic, C	т				-	Tempe	rature	20°C		
Owner/Use	r York	Correcti	onal Facil	ity					Date La	ast Insp	ection		5/2	2/2016
Address	201	West Ma	in Street,	Niantic, C	T				Last Ins	pection	Job#	16-271		
Equipment	Location	416	0 Switchb	oard										
Circuit Ider		52-0	GM											
Relay Iden	tification	Gro	und Overd	current			CT Rat	tio 1000):5		PT Rati	o NA		
Relay I						E.	18				_	143S4141		
Manufactur	er 🔼	.BB		Type Tap R	ange		.5 - 2.0 ar	mns	Catalog	j Numb	er [2	14354141		_
Control Vol		25 VDC		Curve	ungo		hort	про			Ė			_
Use		1N over	current	Inst Ra	ange	2	X - 20 X				Î			
Relay Type	e S	olid Stat	е	Instruc	t Book	7.	2.1.7-14							
0 441	-													
Setting	S	Inst	Тар	Time										
	ICS	Setting	Setting	Dial										
Specified														
As Found	NA	20 X	0.5	10										
As Left	NA	20 X	0.5	10										
Visual	Inspe	ction												
Cover Gas	ket	Χ	Г	Foreign M	1aterial	Х	5	Spiral Sprir	na	NA	Di	sc Cleara	nce	NA
Glass		Χ	-	Moisture		Х		Bearing Co		NA	Ru			Х
			<u>j.</u>				<u>. </u>				<u> </u>			
Routin	e Mair	ntena	nce											
Glass Clea	ned	Х	Г	Relay Cle	aned	Х	Γī	aps Tight		Χ	Ins	sulation R	esist.	NA
Case Clear		Х		Connection		Х	_	Contacts C		Χ		ip Circuit		*
Remarks	The Trip	circuit v	vas not tes	sted at thi	s time.									
Trip times:	300%- 0	.85 seco	nds, 400%	- 0.65 se	conds									
Test O	perati	ons (Time iı	ı Seco	onds)									
·		`	Timino	Tests	Instant	aneous		ICS			1			
1	Pickup	Tests	P.U. %	P.U. %	Pickup	Drop	Pickup		Seal In					
	Tap 1	Tap 2	300%	400%	. ionap	Out	. iokup	Out	0001111					
As Found	0.50	NA	0.83	0.67	10.1	OK	NA	NA	NA					
As Left	0.50	NA	0.83	0.67	10.1	OK	NA	NA	NA					
				1	ſ									
As Found				+							1			
As Left														
		•							•		•			
Remarks														
Submitted									uipment U					



															est#	R15		of L	
Customer	Sta	ate of	СТ							Date	. [6/29/2	2021	lob#	21-2	68		
Address	20	1 Wes	st Mai	n Stre	et, N	Viantic, C	СТ							Tempera	ature	20°0	;		
Owner/Use	er Yo	rk Coı	rectio	nal F	acilit	ty							Date La	ast Inspe	ction			5/2/	2016
Address	20	1 Wes	st Mai	n Stre	et, N	Viantic, C	CT						Last Ins	pection J	ob#	16-2	71		
Equipment	Location	n	4160	0 Swi	tchb	oard										r			
Circuit Ider	ntificatio	n	52-G	M															
Relay Iden	tificatio	า	Tran	sform	er D	ifferentia	nl			CT Rati	0 1	150:5	/ 800:5	P	T Ratio	N/	١		
Relay I			on					_						_					
Manufactui		ABB			_	Type F		-	87T	8.7 an	nne		, ,	Ground lange Gro	ound.	NA NA			
Control Vol	-	125 V	'DC				ange Pha Phase	-	z.ə - Inst	0.1 all	ips			Ground	Julia	NA			
Use	itage	Trans					ange Pha			- 40%	Slope	e		ange Gro	ound	NA			
Relay Type	,	Solid	State		寸		t Book P	-		1.7-4				ct Book (NA			
Settings	s '	1								- (1	- ·	D: 10			
J	ICS		Ø	Inst BØ		neous CØ	G	AØ		Tap S BØ	C	-	G	AØ	I Ime	Dial S	ettin CØ		G
Specified	100		W.	DX	+	CØ	0	AD	╁	שם		,	0	70	00	+	CD	+	
As Found	NA	30)%	30%	6	30%	NA	8.7	+	8.7	8.	.7	NA	INST	INS	ГП	NST	١	۱A
As Left	NA	30)%	30%	6	30%	NA	8.7		8.7	8.	.7	NA	INST	INS	ΓП	NST	1	NΑ
Visual	Insp	ecti	on																
	-	ΑØ	ВØ	CØ	G				A	Ø BØ	СØ	G	1			ΑØ	ВØ	CØ	G
Cover Gas					NA	M	oisture		X	(X	Х	NA	Dis	sc Cleara	nce	NA	NA	NA	NA
Glass		Х	Х	Х	NA		oiral Sprir		N/	A NA	NA	NA	Ru	st		Х	Χ	Х	NA
Foreign Ma	aterial	Х	Х	Χ	NA	. Be	earing Co	ndition	N/	A NA	NA	NA							
Routin	е Ма	inte	nar	ıce															
		ΑØ	ВØ	CØ	G] _			A	ØBØ	CØ	G]			ΑØ	ВØ	CØ	G
Glass Clea		X	Х	Х	NA		onnection				Χ	NA		sulation F	tesist.	NA	NA		NA
Case Clea		X	X	Х	NA		aps Tight		II X		Х	NA	Tri	p Circuit		*	*	*	NA
Relay Clea	inea	Х	Х	Х	NA	.	ontacts C	leaned	Х	(X	Х	NA	J						
Remarks							s time. P												
Tap High S	Side 8.7	, Тар	Low s	side 8	.7, tł	nis was 5	5.0 on orio	ginal te	st for	r High s	side.	Minir	num Res	traint 2.0	, Slope	30%			
Setting = ((B curre	ent / 2	X Tai	0 2) -	1)														
Test O						d /Tir	ma in	Sacc	nd	le)									
1031 0	pera		o uc I			Tests		aneous		10)	IC	s		Slope	На	ırmoni	<u>г</u>		_
Ī	Pickı	ıp Tes	sts	P.U.		P.U. %	Pickup	Drop		Pickup	Dro		Seal In	A-17.4	4 B	lockin			
	Tap 1	.	p 2	300				Out		•		ut		B-22.6	2	15%			
A Phase	3.81	3.	86	0.0	3	NA	NA	NA		NA	N	Α	NA	31.7%	5 1	5.72%)		
B Phase	3.90		92	0.0		NA	NA	NA		NA	N		NA	30.5%		6.03%	_		
C Phase	4.13		16	0.0		NA	NA	NA	_	NA	N		NA	31.5%	5 1	5.68%)		
Ground	NA	N	IA	NA	١.	NA	NA	NA		NA	N	A	NA	NA		NA			
Test O	perat	tion	s as	s Le	eft (Time	in Se	cond	ls)										
			Ī	Tin	ning	Tests	Instant	aneous	;		IC	S		Slope	На	rmoni	С		
	Pickup Tests P.U. %						Pickup	Drop		Pickup	Dro		Seal In	A-17.4 B-22.6		locking 15%	9		
	Tap 1	_	p 2	300	_			Out	┸			ut					\perp		
A Phase	3.81		86	0.0		NA	NA	NA		NA	N		NA	31.7%	_	5.72%	_		
B Phase	3.90	_	92 16	0.0		NA NA	NA NA	NA NA	+	NA	N.		NA	30.5%		6.03%	_		_
C Phase Ground	4.13 NA		.16 IA	NA		NA NA	NA NA	NA NA	+	NA NA	N N		NA NA	31.5% NA	7	5.68% NA	<u> </u>		\dashv
J. 50/10	1 1/ 1		., .	. 1/	. [. 17 1		. •/ (, .	_ ' '	•	. 17 1			, \			



			2	03.269.8778								Test #	R16	of	
Customer	Sta	te of C	Т					Da	te	6/30/2	2021	Job#	21-268	3	
Address	201	West	Mai	n Street,	Niantic, C	CT				-	Temper	ature	20°C		
Owner/Use	er Yor	k Corre	ectio	nal Facili	ty					Date La	ast Insp	ection		5/2	/2016
Address	201	West	Mai	n Street,	Niantic, C	CT				Last Ins	pection	Job#	16-27	1	
Equipment	Locatio	n Z	1160) Switchb	oard										
Circuit Ider	ntification	n 5	52-G	61											
Relay Iden	tification		Gen	erator Wir	nding Ter	np		CT Ra	itio NA			PT Ratio	NA NA		
Relay I	nforn	natio	on		Tuno		40	9T		Catalas	a Niumb	or 4	36D606	-	_
Manufactu	rer [ABB			Type Tap R	ange		30° - 180)°C	Catalog Dropou			30D0000		_
Control Vo	- H	120 VA	\C		Curve	-	_	efinite				Ė			_
Use	Pro-	Over T			Inst R	_	N								
Relay Type	e <u> </u>	Solid S	tate	!	Instru	ct Book	7.	7.1.7-2							
Setting	ıs				Ī	7			ir	1					
	ICS	Ins Setti		Tap Setting	Time Dial	Dropout									
Specified	103	-	9												
As Found	NA	N.A	4	170°C	NA	90%									
As Left	NA	N/	4	170°C	NA	90%									
Vieuel	luana	4:													
Visual	ınspe	CUO	n												
Cover Gas	ket	Х			Foreign N	/laterial	Х	_	Spiral Sprir		NA		c Cleara	nce	NA
Glass		Х		<u> </u>	Moisture		Х	<u>[</u>	Bearing Co	ndition	NA	Ru	st		Х
Routin	e Mai	nter	nar	nce											
Glass Clea	aned	Х		li	Relay Cle	aned	Х	F	Taps Tight		Х	Ins	ulation F	Resist.	NA
Case Clea		Х		L	-	ons Tight	Х	<u> </u>	Contacts C		Х		p Circuit		*
Damanka	The To		.:4	as not tes	.4	- 4:									
Remarks	Tine II	ip circu	JIL W	as not les	sted at thi	s ume.									
Tap 1 is Pi	ickup se	t 164.8	ohr	ns, Tap 2	is Dropo	ut set at	158 ohms	8							
Test O	perat	ions	(T	ime ir	n Seco	onds)									
				Timing	Tests	Instant	aneous		ICS						
1	Picku	p Tests	s	P.U. %	P.U. %	Pickup	Drop	Pickup		Seal In					
	Tap 1	Тар	2	200%	NA		Out		Out						
As Found	160.0	156		0.10	NA	NA	NA	NA	NA	NA					
As Left	160.0	156	.3	0.10	NA	NA	NA	NA	NA	NA					
As Found															
As Left															
			1												
Remarks															
Cubasitta -	Dv C	- N 4 -	N 4:11						F	ilome = 4 ! !	and 1.	1t- P.	TO 5000	DTD	_
Submitted	by Sta	an Mac	HIIVIS	an					⊨qı	uipment U	sea	vianta M	TS 5000	, KID	



			203.269.8778							Т	est#	R17	of	
Customer	State	e of CT					Date		6/30/2	2021	Job#	21-26	88	
Address			in Street,	Niantic, C	CT				-	Tempera	ature	20°C		
Owner/User			onal Facili							ast Inspe			5/2/	2016
Address			in Street,	•	CT				Last Ins			16-27		
Equipment L			0 Switchb											
Circuit Ident		52-0												
Relay Identi		Gen	nerator Wi	nding Ter	np		CT Ratio	o NA		F	PT Ratio	NA NA		
Relay Ir											<u> </u>			_
Manufacture	_	BB		Type Tap R	ange		9T 30° - 180°	^	Catalog Dropou	y Numbe		36D606 0% - 90		_
Control Volta		20 VAC		Curve		_	efinite		Бтороц			070 - 30	770	_
Use	-	ver Tem	р	Inst R	ange	N.	A							
Relay Type	s	olid State	Э	Instru	ct Book	7.	7.1.7-2							
Satting	_													
Settings	ICS	Inst Setting	Tap Setting	Time Dial	Dropout									
Specified	100													
As Found	NA	NA	170°C	NA	90%									
As Left	NA	NA	170°C	NA	90%									
Visual I	nspe	ction												
Cover Gask	et	Х	Г	Foreign N	Material	Х	Sp	oiral Sprir	ng	NA	Dis	c Clear	ance	NA
Glass		Χ	-	Moisture		Х	Ве	earing Co	ndition	NA	Rus	st		Х
D														
Routine	e iviair	ntena	nce											
Glass Clear	ned	Х	[Relay Cle		Х		aps Tight		Х		ulation		NA
	ned		[Relay Cle		X		aps Tight ontacts C		X		ulation o Circui		NA *
Glass Clear Case Clean	ned	X	[Connection	ons Tight									
Glass Clear Case Clean	ned	X	[Connection	ons Tight									
Glass Clear Case Clean	ned	X	[Connection	ons Tight									
Glass Clean Case Clean Remarks	ned ed The Trip	X X	vas not tes	Connectionsted at thi	s time.	X	Co							
Glass Clear Case Clean	ned ed The Trip	X X	vas not tes	Connectionsted at thi	s time.	X	Co							
Glass Clean Case Clean Remarks	The Trip	X X D circuit w	vas not tes ms, Tap 2	Connection sted at this sted at this sted at this sted at this steep of the steep o	s time.	X	Co							
Glass Clean Case Clean Remarks Tap 1 is Pic	The Trip	X X D circuit w	was not tes ms, Tap 2	Connection sted at this sted at this sted at this sted at this steep of the steep o	s time. out set at 2	X	Co							
Glass Clean Case Clean Remarks Tap 1 is Pic Test Op	The Trip	X X X D circuit w 164.8 oh Ons (7	was not tes ms, Tap 2 Fime ir Timing P.U. %	e is Dropo Tests P.U. %	s time. out set at 2	X 158 ohms aneous Drop	Co	ICS Drop						
Glass Clear Case Clean Remarks Tap 1 is Pic Test Op	The Trip Skup set Deration Pickup Tap 1	X X X 2 circuit w 164.8 oh Ons (7	ms, Tap 2 Fime ir Timing P.U. % 200%	sted at thi	s time. ut set at a onds) Instant Pickup	X 158 ohms aneous Drop Out	Pickup	ICS Drop Out	Seal In					
Glass Clean Case Clean Remarks Tap 1 is Pic Test Op	The Trip Ckup set Pickup Tap 1 162.0	X X X Decircuit we 164.8 oh Ons (7 Tests Tap 2 156.2	ms, Tap 2 Fime ir Timing P.U. % 200% 0.10	e is Dropo Tests P.U. % NA NA	s time. out set at a property of the set at a	X X 158 ohms aneous Drop Out NA	Pickup NA	ICS Drop Out NA	Seal In					
Glass Clear Case Clean Remarks Tap 1 is Pic Test Op	The Trip Skup set Deration Pickup Tap 1	X X X 2 circuit w 164.8 oh Ons (7	ms, Tap 2 Fime ir Timing P.U. % 200%	sted at thi	s time. ut set at a onds) Instant Pickup	X 158 ohms aneous Drop Out	Pickup	ICS Drop Out	Seal In					
Glass Clean Case Clean Remarks Tap 1 is Pic Test Op	The Trip Ckup set Pickup Tap 1 162.0	X X X Decircuit we 164.8 oh Ons (7 Tests Tap 2 156.2	ms, Tap 2 Fime ir Timing P.U. % 200% 0.10	e is Dropo Tests P.U. % NA NA	s time. out set at a property of the set at a	X X 158 ohms aneous Drop Out NA	Pickup NA	ICS Drop Out NA	Seal In					
Glass Clean Case Clean Remarks Tap 1 is Pic Test Op	The Trip Ckup set Pickup Tap 1 162.0	X X X Decircuit we 164.8 oh Ons (7 Tests Tap 2 156.2	ms, Tap 2 Fime ir Timing P.U. % 200% 0.10	e is Dropo Tests P.U. % NA NA	s time. out set at a property of the set at a	X X 158 ohms aneous Drop Out NA	Pickup NA	ICS Drop Out NA	Seal In					
Glass Clear Case Clean Remarks Tap 1 is Pic Test Op As Found As Left	The Trip Ckup set Pickup Tap 1 162.0	X X X Decircuit we 164.8 oh Ons (7 Tests Tap 2 156.2	ms, Tap 2 Fime ir Timing P.U. % 200% 0.10	e is Dropo Tests P.U. % NA NA	s time. out set at a property of the set at a	X X 158 ohms aneous Drop Out NA	Pickup NA	ICS Drop Out NA	Seal In					
Glass Clean Case Clean Remarks Tap 1 is Pic Test Op	The Trip Ckup set Pickup Tap 1 162.0	X X X Decircuit we 164.8 oh Ons (7 Tests Tap 2 156.2	ms, Tap 2 Fime ir Timing P.U. % 200% 0.10	e is Dropo Tests P.U. % NA NA	s time. out set at a property of the set at a	X X 158 ohms aneous Drop Out NA	Pickup NA	ICS Drop Out NA	Seal In					
Glass Clear Case Clean Remarks Tap 1 is Pic Test Op As Found As Left As Found As Left	The Trip Ckup set Pickup Tap 1 162.0	X X X Decircuit we 164.8 oh Ons (7 Tests Tap 2 156.2	ms, Tap 2 Fime ir Timing P.U. % 200% 0.10	e is Dropo Tests P.U. % NA NA	s time. out set at a property of the set at a	X X 158 ohms aneous Drop Out NA	Pickup NA	ICS Drop Out NA	Seal In					
Glass Clear Case Clean Remarks Tap 1 is Pic Test Op As Found As Left As Found	The Trip Ckup set Pickup Tap 1 162.0	X X X Decircuit we 164.8 oh Ons (7 Tests Tap 2 156.2	ms, Tap 2 Fime ir Timing P.U. % 200% 0.10	e is Dropo Tests P.U. % NA NA	s time. out set at a property of the set at a	X X 158 ohms aneous Drop Out NA	Pickup NA	ICS Drop Out NA	Seal In					
Glass Clear Case Clean Remarks Tap 1 is Pic Test Op As Found As Left As Found As Left	The Trip Ckup set Pickup Tap 1 162.0	X X X Decircuit we 164.8 oh Ons (7 Tests Tap 2 156.2	ms, Tap 2 Fime ir Timing P.U. % 200% 0.10	e is Dropo Tests P.U. % NA NA	s time. out set at a property of the set at a	X X 158 ohms aneous Drop Out NA	Pickup NA	ICS Drop Out NA	Seal In					
Glass Clear Case Clean Remarks Tap 1 is Pic Test Op As Found As Left As Found As Left	The Trip Ckup set Pickup Tap 1 162.0	X X X Decircuit we 164.8 oh Ons (7 Tests Tap 2 156.2	ms, Tap 2 Fime ir Timing P.U. % 200% 0.10	e is Dropo Tests P.U. % NA NA	s time. out set at a property of the set at a	X X 158 ohms aneous Drop Out NA	Pickup NA	ICS Drop Out NA	Seal In					



			203.269.8778	. C1 00432						٦	Γest#	R18	of	
Customer	State	e of CT					Date	,	6/30/2	2021	Job#	21-26	8	
Address			ain Street,	Niantic, C	T				-	Tempera	ature	20°C		
Owner/Use			ional Facil							ast Inspe			5/2	/2016
Address			ain Street,	•	T				Last Ins			16-27		
Equipment			0 Switchb											
Circuit Ider		52-												
Relay Iden			nerator Wi	ndina Ter	np		CT Rati	o NA		F	PT Ratio	NA NA		
Relay I					•						_			
Manufactu	_	BB		Type Tap R	ango	49	9T 30° - 180°	<u>C</u>	Catalog Dropou	y Numbe		36D606 0% - 90		_
Control Vo	_	20 VAC		Curve	arige		efinite		Біороц	·	F	0 70 - 30	70	_
Use	_	ver Tem	ıp	Inst R	ange	N	4							
Relay Type	e S	olid Stat	е	Instruc	ct Book	7.	7.1.7-2							
Cattina														
Setting	ICS	Inst Setting	Tap Setting	Time Dial	Dropout									
Specified	103		Journal											
As Found	NA	NA	170°C	NA	90%									
As Left	NA	NA	170°C	NA	90%									
Visual	Inspe	ction												
Cover Gas	kot	Х	Г	Foreign N	Material	Х	9	piral Sprir	ng	NA	Die	c Clear	ance	NA
Glass	iket	X	-	Moisture	iatoriai	X		earing Co		NA	Ru		arioc	X
			L				<u> </u>	<u> </u>						
Routin	e Mair	ntena	nce											
Glass Clea	aned	Х	Г	Relay Cle	aned	Х	T.	aps Tight		Х	Ins	ulation	Resist.	NA
Case Clea	ned	Х	L-	Connection		Х		ontacts C		Х	Tri	p Circuit		*
Remarks	The Trip	oirouit v	vas not tes	atad at thi	a tima									
Remarks	Tille till	Circuit	vas not tes	steu at till	s une.									
Tap 1 is P	ickup set	164.8 oh	ıms, Tap 2	is Dropo	ut set at	158 ohms	3							
Test O	perati	ons (Time iı	n Seco	onds)									
			Timino	Tests	Instant	aneous		ICS						
,	Pickup	Tests	P.U. %	P.U. %	Pickup	Drop	Pickup	Drop	Seal In					
•	Tap 1	Tap 2	200%	NA	·	Out	•	Out						
As Found	162.0	154.9	0.10	NA	NA	NA	NA	NA	NA					
As Left	162.0	154.9	0.10	NA	NA	NA	NA	NA	NA					
As Found As Left														
AS Leit					l									
Remarks														
					_					_				
	By Sta	n MacMi	llon					Fai	ipment U	sed I	lanta M	TS 500	DTD	



			20	03.269.8	778									Te	est#	R19	9 0	f [\neg
Customer	Stat	e of 0	CT							Date	. [6/30/2	2021 J	ob#	21-:	268		
Address	201	Wes	t Maii	n Stre	et,	Niantic, 0	CT							Tempera	ture	20°	С	_	
Owner/Use	er York	Cor	rectio	nal F	acili	tv							Date La	ast Insped	ction			5/2/2	2016
Address	201	Wes	t Maii	n Stre	et.	Niantic, (CT						Last Ins	pection J	ob#	16-2	271	_	=
Equipment	Į.	le le) Swit										•					
Circuit Ider		i i	52-G															_	
Relay Iden	tification	i i		rentia	l Re	lav			С	Γ Rati	0 2	00:5	5	P	Γ Ratio	N	Α	—	
Relay I		Į.				•		_			· 1=					_			
_	_				_	Type F			7M	\ -			,,	Ground		NA			
Manufactu Control Vo	· -	.BB 25 VI	<u> </u>			•	ange Pha Phase		ixed).5 am	ıps		•	ange Gro Ground	ound	NA NA			
Use		en D					rnase ange Pha	<u> </u>	IA					ange Gro	und	NA			
Relay Type		olid S					ct Book P	_	.6.1.	7-1				ct Book G		NA			
Setting	<u> </u>																		
9	ICS	Δ.	α			aneous	G	Λα	_	Tap S	`	_	<u> </u>	A (2)	Time [Dial S		_	
Specified	NA	A	0	BØ	_	CØ	NA NA	AØ	+	BØ	C	0	G NA	AØ	BØ	╁	CØ	4	G IA
As Found	NA NA	N	A	NA		NA	NA.	0.4	(0.4	0.4	4	NA	Fixed	Fixed	-	ixed	_	IA
As Left	NA	N	Α	NA	١	NA	NA	0.4	(0.4	0.4	4	NA	Fixed	Fixed	_	ixed	١	ΙA
Visual	Inspe	ctio	n																
7.00.0.		ΑØ	ВØ	CØ	G	٦			ΑØ	ВØ	СØ	G	7			ΑØ	ВØ	СØ	G
Cover Gas	ket	Х	X	Х	X	_	oisture		Х	X	Х	X	Dis	c Cleara	nce	NA		NA	NA
Glass		Х	Х	Х	Х	Sı	piral Sprir	ng	NA	NA	NA	NA	Ru	st		Х	Х	Χ	Х
Foreign Ma	aterial	Χ	Χ	Χ	Χ	В	earing Co	ndition	NA	NA	NA	NA]						
Routin	e Mai	nte	nan	се															
		ΑØ	ВØ	CØ	G] _			ΑØ	ВØ	CØ	G]			ΑØ		CØ	G
Glass Clea		Х	Х	Х	Х		onnection	s Tight	Х	Х	Х	Х	┛	ulation R	esist.	NA	NA	NA	NA
Case Clea		X	X	X	X		aps Tight ontacts C	laanad	X	X	X	X	Tri	p Circuit		*	*	*	*
Relay Clea								leaned		^	^	^							
Remarks					t tes	ted at th	is time.												
Relay Cata	alog Num	ber: :	219IV	125/3															_
																			_
																			_
Test O	nerati	ons	: as	: Fo	HIT	nd (Tir	me in :	Seco	nds	3)									
	poraci	···	ر آ			Tests		aneous	T		IC	S		Restrair	nt I				\neg
	Pickup	Tes	ts	P.U.		P.U. %	Pickup	Drop	Pi	ckup	Dro		Seal In	current (@				
	Tap 1	Tap		300	%			Out		·	Οι			10 amp	s				
A Phase	0.426	N	A	0.02	2	NA	NA	NA	ı	NA	N/	4	NA	0.97					
B Phase	0.427	N		0.03		NA	NA	NA	I	NA	N/		NA	0.99					
C Phase	0.438	N		0.03		NA	NA	NA	4-	NA	N/		NA	0.98					_
Ground	NA	N	А	NA	١.	NA	NA	NA	'	NA	N/	4	NA	NA					
Test O	perati	ons	as	s Le	ft	(Time	in Se	cond	s)										
				Tin	ning	Tests	Instant	aneous			IC	S		Restrair					
	Pickup	_		P.U.		P.U. %	Pickup	Drop	Pi	ckup	Dro		Seal In	current (10 amp	_				
A 5:	Tap 1	Ta	_	3009				Out	1		Ou			·					
A Phase	0.426	N.		0.02		NA	NA NA	NA	4-	NA NA	N/		NA NA	0.97					\dashv
B Phase C Phase	0.427	N N		0.00		NA NA	NA NA	NA NA	4-	NA NA	N/		NA NA	0.99	-			—	\dashv
Ground	NA	N		NA		NA	NA	NA	_	NA	N/		NA	NA	+				\dashv

Equipment Used Manta MTS-5000



			2	33.203.0	,,,0									Te	est#	R20	01	f [
Customer	Sta	ate of	СТ							Date			6/30/2	2021 J	ob#	21-2	268		
Address	20	1 Wes	t Mai	n Stre	et,	Niantic, (CT							Tempera	ture	20°0)		$\overline{}$
Owner/Use	er Yo	rk Cor	rectio	nal F	acil	ity							Date La	ast Insped	ction			5/2/2	2016
Address	20	1 Wes	t Mai	n Stre	et,	Niantic, (СТ						Last Ins	pection J	ob#	16-2	271		
Equipment	Location	n	416) Swit	tchb	oard								-		,			
Circuit Ider	ntificatio	n i	52-G															_	\equiv
Relay Iden				rentia	l Re	elav			С	Γ Rati	0 2	200:5	j	P	Γ Ratio	N/	A	_	
Relay I							5.	I 0	-		· =								
Manufactu		ABB				Type I	⊃nase ange Pha	<u> </u>	7M 1 - 0).5 am	ne			Ground lange Gro	und	NA NA			
Control Vo	-	125 V	DC				Phase		ixed	7.5 an	ipo	-		Ground	unu	NA			
Use	9-	Gen D					ange Pha	se N	Α					ange Gro	und	NA			$\overline{}$
Relay Type	e	Solid	State			Instru	ct Book P	hase 7	.6.1.	7-1			Instru	ct Book G	round	NA			
Setting	s			Inot	ont	aneous				Tap S	attin			1	Time [Dial C	ottina		
_	ICS	A	Ø	BØ		CØ	G	AØ	_	Tap s 3Ø	C	_	G	AØ	BØ	_	CØ		G
Specified	NA	+ -	.~			- 02	NA	712	t				NA	712		╁	-	4	١A
As Found	NA	N	IA	NA	١	NA	NA	0.4	(0.4	0.	4	NA	Fixed	Fixed	F	ixed	N	۱A
As Left	NA	N	IA	NA	١.	NA	NA	0.4	(0.4	0.	4	NA	Fixed	Fixed	F	ixed	N	۱A
Visual	Insp	ecti	on																
	•	ΑØ	_	СØ	G				ΑØ	ВØ	СØ	G	7			ΑØ	ВØ	СØ	G
Cover Gas	ket	Х	Χ	Х	Х	М	oisture		Х	Х	Χ	Х	Dis	sc Clearar	nce	NA	NA	NA	NA
Glass		Х	Х	Х	Х		piral Sprir	_	NA	NA	NA	NA	Ru	st		Χ	Χ	Χ	Х
Foreign Ma	aterial	Х	Χ	Х	Х	В	earing Co	ndition	NA	NA	NA	NA	_						
Routin	е Ма	inte	nar	ice															
		ΑØ	ВØ	CØ	G				ΑØ	ВØ	CØ	G]			ΑØ	ВØ	CØ	G
Glass Clea		Х	Χ	Х	Х		onnection	s Tight	Х	Х	Χ	Х	┩ ┡━	sulation R	esist.	NA	NA	NA	NA
Case Clea		X	X	X	X		aps Tight		X	X	X	X	Tri	p Circuit		*	*	*	*
Relay Clea	inea	X	Х	Х	Х		ontacts C	leaned	X	Х	Х	Х							
Remarks					t tes	sted at th	is time.												
Relay Cata	alog Nu	mber:	219N	12573															
																			_
Test O	nora	lion		· Ea		od /Tii	mo in	S000	nde	٠,									
Test O	pera	LIUII	s as					aneous	T	·)	IC			Restrair	1				
	Picki	ıp Tes	ets	P.U.		Tests P.U. %	Pickup	Drop	Pi	ckup	Dro		Seal In	current (
	Tap 1		p 2	300		1 .0. 70	Покар	Out	Ι΄΄	ortup	Oi		ocai iii	10 amp	s				
A Phase	0.478	_	IA	0.0		NA	NA	NA		NA	N.	Α	NA	1.05			+		\dashv
B Phase	0.475	N	IA	0.0	3	NA	NA	NA		NA	N.	A	NA	1.06			丁		
C Phase	0.485	_	IA	0.0	_	NA	NA	NA	_	NA	N.		NA	1.08					
Ground	NA	N	IA	NA	١.	NA	NA	NA	l	NA	N.	A	NA	NA					
Test O	pera	tions	s as	s Le	ft	(Time	in Se	cond	s)										
	•		1			Tests		aneous	Ť		IC	S		Restrair	nt				\neg
	Pick	ıp Tes	sts	P.U.		P.U. %	Pickup	Drop	Pi	ckup	Dro		Seal In	current (@				
	Tap 1	Та	p 2	300	%			Out			O	ut		10 amp	s				
A Phase	0.478	_	IA	0.0	_	NA	NA	NA	I	NA	N.		NA	1.05					
B Phase	0.475	_	IA .	0.0		NA	NA	NA	4	NA	N.		NA	1.06			\perp		
C Phase	0.485		IA	0.0		NA	NA NA	NA	_	NA NA	N.		NA	1.08			+		_
Ground	NA	IN	IA	NA	١.	NA	NA	NA	1 '	NA	IN	^	NA	NA			1		l

Equipment Used Manta MTS-5000



			20	03.269.8	778									Te	est#	R2	1 (of	
Customer	Stat	e of 0	CT							Date	. [6/30/2	2021 J	ob#	21-	268		\equiv
Address	201	Wes	t Maii	n Stre	et,	Niantic, 0	CT							Tempera	ture	20°	,C		
Owner/Use	er York	Cor	rectio	nal F	acili	tv							Date La	st Inspec	ction	H		5/2	/2016
Address						Niantic, (CT							pection J		16-	271		_
Equipment	Į.	le le) Swit										,		11.4		_	
Circuit Ider		i i	52-G			- Cara										_			_
Relay Iden		ļ.		rentia	I De	lav				Γ Rati	o [2	:00:5	-	P	Γ Ratio	N	IΔ		
•				Cilla	1110	пау				ı ıxatı	ع ا	.00.0	,		ratio	Į.v			
Relay I			on			Type I	Phase		7M				Type	Ground		NA			
Manufactu	· -	BB				•	ange Pha).5 am	ıps		•	ange Gro	ound	NA			
Control Vo		25 VI Sen D					Phase	<u> </u>	ixed IA					Ground	שמיי	NA NA			
Use Relay Type		olid					ange Pha ct Book P	_	.6.1.	7-1				ange Gro ct Book G		NA			
Setting	_	Olia C	rate			monuc	DOOK I	nasc /	.0.1.				mond	or book c	nouna				
Setting						aneous			_	Tap S	`	_			Time I	Dial S		g	
	ICS	A	Ø	BØ	i	CØ	G	AØ	!	ВØ	C	Ø	G	AØ	BØ	4	CØ	\bot	G
Specified	NA NA	N	٨	NA		NA	NA NA	0.4	+	0.4	0.4	1	NA NA	Fixed	Fixed	+	Fixed	_	NA NA
As Found As Left	NA	N		NA		NA	NA	0.4	4-	0.4	0.4		NA	Fixed	Fixed	_	Fixed		NA
											-								
Visual	inspe			100	_	7			~	In a	0.0	_	7				· 1	Toc	
Cover Gas	kot	AØ X	BØ X	CØ X	G X	_	oisture		AØ X	BØ X	CØ X	G X	Die	c Clearar	200	AØ NA		CØ NA	
Glass	okei	X	X	X	X		piral Sprir	na	NA	_	NA	NA	Ru		ice	X	X	X	X
Foreign Ma	aterial	Х	Х	Х	Х		earing Co	•	NA	NA	NA	NA	1 🗀						
Routin		nto	nan	100			-		<u> </u>				_1						
Routin	C IVIAII	AØ	ВØ	cø	G	7			ΑØ	ВØ	СØ	G	7			AQ	ВØ	CØ) G
Glass Clea	aned	X	X	X	Х		onnection	s Tiaht	X	X	X	Х	Ins	ulation R	esist.	NA		NA NA	
Case Clea		Х	Х	Х	Х		aps Tight	- 1.3.1.	Х	Х	Х	Х	┛	p Circuit		*	*	*	*
Relay Clea	aned	Х	Х	Χ	Χ	С	ontacts C	leaned	Х	Х	Χ	Х							
Remarks	The Trip	o circ	uit wa	as not	tes	ted at th	is time.												
Relay Cata	alog Num	ber: :	219M	12573															
								_											
Test O	perati	ons	sas			•	me in	Seco	nds	<u>s)</u>									
						Tests		aneous	1_		IC			Restrair current (
	Pickur Tap 1	Ta		P.U.		P.U. %	Pickup	Drop Out	P	ckup	Dro Ou		Seal In	10 amp	_				
A Phase	0.476	N	_	0.03		NA	NA	NA	+	NA	N/		NA	1.11		—			
B Phase	0.478	N		0.03		NA	NA	NA		NA	N/		NA	1.13					_
C Phase	0.493	N	Α	0.03	3	NA	NA	NA		NA	N/	4	NA	1.15					
Ground	NA	N	A	NA		NA	NA	NA		NA	N/	4	NA	NA					
Test O	nerati	one	: 29	. ו	ft	(Time	in Se	cond	e)										
	poraci	···	, uc			Tests		aneous	"		IC	S		Restrair	nt I	—	- 1		—
	Pickup	Tes	ts	P.U.		P.U. %	Pickup	Drop	Pi	ckup	Dro		Seal In	current (@				
	Tap 1	Ta		300		,,		Out		·P	Ot			10 amp	s				
A Phase	0.476	N	A	0.0	3	NA	NA	NA		NA	N/	Ą	NA	1.11					
B Phase	0.478	N		0.03		NA	NA	NA	4-	NA	N/		NA	1.13					
C Phase	0.493	N		0.03		NA	NA	NA	_	NA	N/		NA	1.15			_		
Ground	NA	N	А	NA		NA	NA	NA		NA	N/	4	NA	NA					

Equipment Used Manta MTS-5000



		269.8778	472			Test # 1	of
Customer Sta	ite of CT			Date	6/29/2021	Job # 21-2	268
Address 20°	1 West Main	Street, Nian	tic, CT		Temp 29*0	C Humic	dity 69%
Owner/User You	k Correction	al Facility			Date Last Ins	pection	5/2/2016
	1 West Main		tic, CT		Last Inspection		
Equipment Locatio				Electrical Service Swi	·		
Breaker Identificati							
Breaker Info	ormantic	on					
Manufacturer W	estinghouse	Cat #	/ Type 5	0 VCP-W 250 V	oltage 4.76KV Amp	s 1200 A	Age 1993
Serial Number 9	3015702		Type of O	p Mech STD. ENE.	Int Rating 29K	(A Other	
Test Results	s				•		
Insulation Resistar	nce A-G	B-G	C-G			Inspected	Cleaned/Lube
5000 Volts	100K+	100K+	100K+		Overall Cleanliness	Х	Х
(in Megohms)	A-B	B-C	C-A		Insulating Members	Х	Х
	100K+	100K+	100K+		Mech Connections	Х	Х
	A-A	В-В	C-C		Structural members	Х	Х
	100K+	100K+	100K+		Cubicle	Х	Х
Contact Resistance As Found	e AØ 43	BØ 50	CØ	(in Micro-ohms)	Shutter Mechanism	Х	Х
As Left	43	50	28		Racking Device	Х	Х
Over Potential Tes	. "				Cubicle Wiring	Х	Х
NA NA	NA AØ - G	BØ - G NA	CØ - G		Heaters	Х	Х
Bottle Integrity Tes		,			Panel Lights	Х	Х
27 KVAC / 1 Min	Pass	BØ L - L Pass	CØ L - L Pass		Pri Contact Fingers	Х	Х
r		-			Sec Contact Assembly	Х	Х
Adjustments	Manufact. Recomend		id As Lef	t	Main Contacts	Х	Х
Erosion Indicator	1/8"	OK	OK		Breaker Wiring	Х	Х
Main Contact Gap	NA	NA	NA		Mechanical Lube	Х	Х
					Į		
					Į		
					Į		
					Ground Connection	0	K
					Contact Sequence	A - E	
					Counter	009	987
Remarks							
Equipment Used	Megger / DL	RO / AC Hi	pot			/ 131202 / 1006	301
Submitted By	Jim Drury			Test	Crew JD		



3 Buel Street, Wallingford, CT 06492

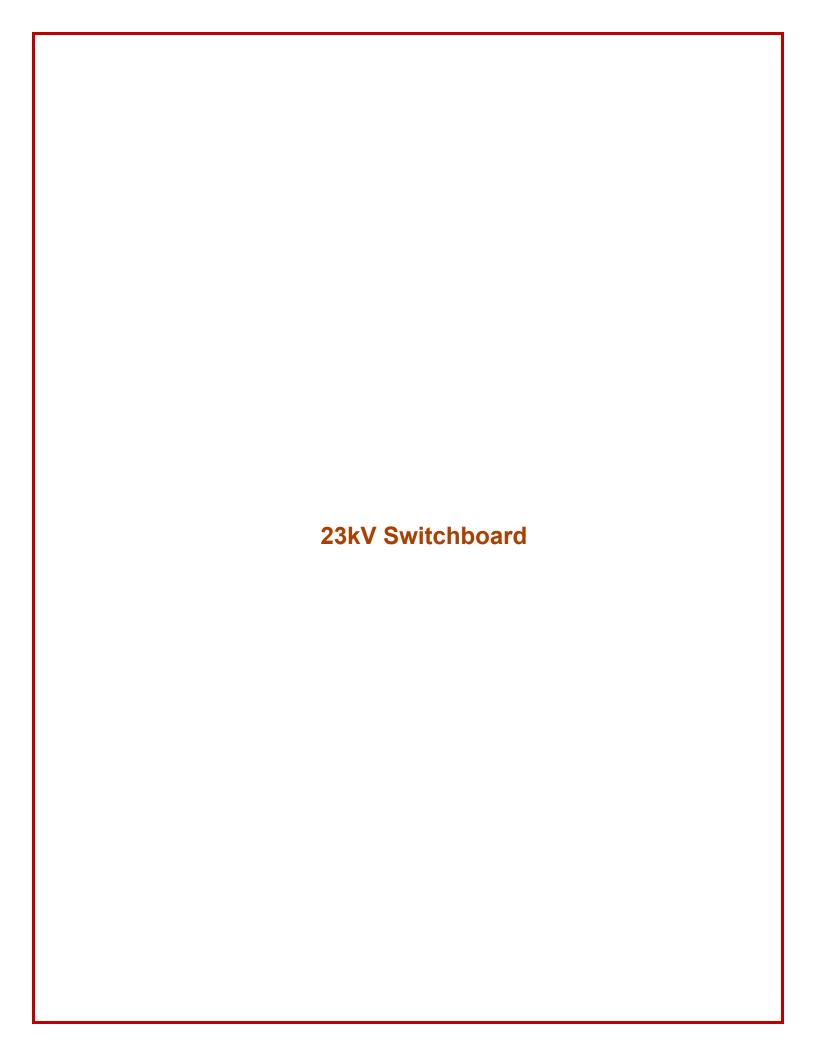
	203.2	269.8778	452					Test #	2	of
Customer Sta	ite of CT				Date	7/1	1/2021	Job#	21-2	68
Address 20	1 West Main S	Street, Nian	tic, CT			Temp	22°0	0	Humid	ity 50%
Owner/User You	rk Correctiona	al Facility				Date	Last Ins	pection		5/2/2016
	1 West Main S		tic. CT				spection		16-2	
Equipment Location				Electrical Servi	ce Switchbo					
Breaker Identificati										
Breaker Info	,	n								
Manufacturer W	estinghouse	Cat #	/ Type 5	0 VCP-W 250	Voltage	4.76KV	Amp	s 1200	Α	ge 1993
Serial Number 9	3015701		Type of O	p Mech STD	. ENE. Ir	nt Rating	29K	A C	Other	
Test Result	S			,			,			
Insulation Resistar	nce A-G	B-G	C-G					Inspec	ted	Cleaned/Lube
5000 Volts	100K+	100K+	100K+		O	verall Clear	nliness	Х		Х
(in Megohms)	A-B	B-C	C-A		In	sulating Me	mbers	Х		Х
	100K+	100K+	100K+		Me	ech Conne	ctions	Х		Х
	A-A	B-B	C-C		St	ructural me	mbers	Х		Х
	100K+	100K+	100K+			ubicle	ĺ	X		Х
Contact Resistance		BØ	CØ	(in Micro-ohr	ns) St	nutter Mech	anism	Х		Х
As Found	49	50	50		Ra	acking Devi	ice	X		Х
As Left	49	50	50		Cı	ubicle Wirin	ıg İ	X		Х
Over Potential Tes	- AØ - G	BØ - G	CØ - G		He	eaters		Х		Х
NA	NA	NA	NA		Pa	anel Lights		X		Х
Bottle Integrity Tes	- 100 L L	BØ L - L	CØ L - L			i Contact F	inaers	X		Х
27 KVAC / 1 Min	Pass	Pass	Pass			Contact Ass	- 1	X		Х
Adjustments	Manufact. Recomend	As Four	nd As Lef	t		ain Contact	1	Х		Х
Erosion Indicator	1/8"	OK	OK		Br	eaker Wirir	ng	Х		Х
Main Contact Gap		NA NA	NA NA	=		echanical L	- 1	Х		Х
Iviairi Contact Cap	14/3	14/3	IVA	=			ĺ			
]					ĺ			
][ĺ			
][
][
				_			ľ			
					Gı	round Conr	ection		OI	K
						ontact Sequ	ļ		A - B	
						ounter			013	
						our iter	:		010	
Remarks										
	<u></u>									
Equipment Used	Megger / DL	RO / AC Hi	pot		Equipment			/ 131202	2 / 1006	01
Submitted By	Jim Drury				Test Crew		JD	_	_	



	3 baei st	203.269	9.8778	7772					Test#	3	of
Customer Sta	ate of CT	•				Date	7/	1/2021	Job#	21-2	268
Address 20	1 West N	lain Str	reet, Niar	ntic, CT			Tem	p 22°0	С	Humic	lity 50%
Owner/User Yo	ork Correc	ctional	Facility				Date	Last Ins	pection		5/2/2016
			reet, Niar	ntic, CT				nspectio		16-2	
Equipment Location	_				Electrical Ser	vice Swite					
Breaker Identificat		2-G1									
Breaker Infe	,		1								
Manufacturer N	/estingho	use	Cat #	/ Type 5	0 VCP-W 250) Vol	Itage 4.76KV	/ Amp	s 1200) A	lge 1993
Serial Number	93015700)		Type of O	p Mech ST	D. ENE.	Int Rating	29K	A (Other	
Test Result	ts				,			,			
Insulation Resista	nce A-	·G	B-G	C-G					Insped	cted	Cleaned/Lube
5000 Volts	100k		100K+	100K+			Overall Clea	nliness	Х		Х
(in Megohms)	" A-	В.	В-С	C-A			Insulating Me	embers	X		Х
	100k	(+	100K+	100K+			Mech Conne	ctions	X		Х
	A-		B-B	C-C			Structural me	embers	X		Х
	100k	- 1	100K+	100K+			Cubicle	ĺ	Х		Х
Contact Resistance			BØ	CØ	(in Micro-o	nms)	Shutter Mec	hanism	Х		Х
As Found	45		51	51			Racking Dev	rice	X		Х
As Left	45		51	51			Cubicle Wiri	ng	X		Х
Over Potential Tes		- G	BØ - G	CØ - G			Heaters	i	X		Х
NA	NA	Jr	NA	NA			Panel Lights		Х		Х
Bottle Integrity Tes			BØ L - L	CØ L - L			Pri Contact F		Х		Х
27 KVAC / 1 Min	Pass	S F	Pass	Pass		S	Sec Contact As	- 1	X		Х
Adjustments	S Manu Recor		As Four	nd As Lef	t		Main Contac		X	_	X
Erosion Indicator	1/8	1.0	OK	OK			Breaker Wiri	ng	Х		Х
Main Contact Gap			NA	NA NA			Mechanical I	-	X		Х
Iviairi Contact Cap	147		IVA	14/3				ĺ			
								ĺ			
								ĺ			
								ĺ			
								Í			
							Ground Con	nection		0	K
							Contact Seq	uence		A - E	3 - C
							Counter	:		010)56
Remarks											
Equipment Used	Meager	· / DLR	O / AC H	ipot		Equipr	ment Serial #	090902	/ 13120	2 / 1006	601
Submitted By	Jim Dru			•		Test C		JD			



		203.2	69.8778						Test #	4	of	
Customer	State	of CT				Date	6/2	9/2021	Job#	21-2	68	
Address	201 V	Vest Main S	Street, Niar	ntic, CT			Tem	22°	С	Humid	ity 50%	6
Owner/User	York	Correctiona	l Facility				Date	Last Ins	pection		5/2/	2016
Address	201 V	Vest Main S	Street, Niar	ntic, CT			Last I	nspectio	n Job#	16-2	71	
Equipment Loca	ation	Building	g 10. Main	Emergency E	Electrical Servi	ce Switc	hboard					
Breaker Identific	cation	52-GM										
Breaker Ir	nfor	mantio	n									
Manufacturer	Wes	tinghouse	Cat #	/ Type 50) VCP-W 250	Vol	tage 4.76KV	Amp	s 1200		ge 199	3
Serial Number	930	15703		Type of Op	Mech STE	. ENE.	Int Rating	29K	(A)	Other		
Test Resu	ılts											
Insulation Resis	stance	e A-G	B-G	C-G					Inspec	ted	Cleaned/	/Lube
5000 Volts	s	100K+	100K+	100K+			Overall Clea	nliness	Х		Х	
(in Megohms)		A-B	B-C	C-A			Insulating Me	embers	X	Ti-	X	
		100K+	100K+	100K+			Mech Conne	ctions	Х		Х	
		A-A	B-B	C-C			Structural me	embers	X		X	_
		100K+	100K+	100K+			Cubicle		X		X	
Contact Resista	ance	AØ	ВØ	CØ	(in Micro-ohr	ns)	Shutter Mec	naniem	X		X	
As Found		50	49	46				- 1				
As Left		50	49	46			Racking Dev		X		X	
Over Potential	Test	AØ - G	BØ - G	CØ - G			Cubicle Wiri	ng	Х		Х	
NA		NA	NA	NA			Heaters		Х		Х	
Bottle Integrity	Test	AØ L - L	BØ L - L	CØ L - L			Panel Lights		X		X	
27 KVAC / 1 M	in	Pass	Pass	Pass			Pri Contact F	ingers	X		X	
•			As Four			S	ec Contact As	sembly	Х		Х	
Adjustmer	nts	Manufact. Recomend		iu As Leit			Main Contac	ts	Х		Х	
Erosion Indicate	or	1/8"	OK	OK			Breaker Wiri	ng	Х		Х	
Main Contact G	Sap	NA	NA	NA			Mechanical I	₋ube	Х		Х	
]									
]]									
][— i		
							0 10					
							Ground Con	I		OI		
							Contact Seq	uence		A - B		
							Counter			010	69	
Remarks										-		
Equipment Use	d F	Acass / Di	DO / AO ! !	inat		Equip-	nont Coriol #	000000	/ 12100	2 / 1000	201	
Equipment Use	-	legger / DL	KU / AC H	ipot			nent Serial #		/ 131202	1/1006	UT	
Submitted By	J	im Drury				Test C	rew	JD				





															Test #	R22	0	f L			
Customer	Sta	ate of	СТ							Date	∍ [6/29/2	6/29/2021 Job # 21				21-268			
Address	20	1 Wes	st Mai	n Stre	eet,	Niantic, C	СТ							Tempe	rature	20°C	5				
Owner/Use	r Yo	rk Co	rrectio	nal F	acili	ty							Date La	ast Insp	ection			5/3/2	2016		
Address	20	1 Wes	st Mai	n Stre	et,	Niantic, C	CT						Last Ins	pection	Job#	16-2	200				
Equipment	Locatio	n	23 K	V Swi	itcht	ooard										-					
Circuit Ider	ntificatio	n	52-U	1															\equiv		
Relay Iden	tification	ı	Phas	se Ov	ercu	ırrent			Т	CT Rat	io [150:5	j		PT Ratio	NA	-	_	\equiv		
Relay I	nforr	nati	ion				. .		le 4				_			, [54]					
Manufactui	_	ABB			1	Type F	Pnase ange Pha		51	i 5 - 6 amp	٠.			Ground lange G	round	51 I	· 2 am	ne			
Control Vol	-	125 V	/DC				ange rna Phase	150	-	erse	,3			Ground		Shor		ips	\rightarrow		
Use	lage		curren	t			ange Pha	se		(- 20 X				ange G			- 20 X		\rightarrow		
Relay Type	,	Solid	State				t Book P		7.2	2.1.7-14				-	Ground	7.2.	1.7.14	ŀ			
Setting	S	_			'			1	_	_				i					<u> </u>		
		٠,	. ~			aneous	0	A C	٠ ا		Settin	<u> </u>	0	Λα	Time			_			
Specified	ICS	<i>P</i>	۱Ø	BØ	<u>, </u>	CØ	G	AØ	_	BØ	С	Ø	G	AØ	BØ	+-	CØ	+ '	G		
As Found	NA	20	0 X	20 2	X	20 X	20 X	6		6	6	3	0.8	2	2	+	2	1	10		
As Left	NA	20) X	20 2	Χ	20 X	20 X	6		6	6	3	0.8	2	2	\top	2	1	10		
Visual	Insp	ecti	on																		
	•	ΑØ		СØ	G	7			Γ	AØ BØ	CØ	G	٦			ΑØ	ВØ	СØ	G		
Cover Gas	ket) X	Х	Х	Х	_	oisture		٦t	ХХ	Х	Х	Dis	sc Clear	ance	NA	NA	NA	NA		
Glass		Х	Х	Х	Х	SI	oiral Sprir	ng		NA NA	NA	NA	Ru	st		Х	Х	Χ	Х		
Foreign Ma	aterial	Х	X X X X Bearing Condition NA NA NA							NA] _										
Routine Maintenance																					
									G	7			ΑØ	ВØ	CØ	G					
Glass Clea	ned	Х	Х	Χ	Х	C	onnection	s Tigh	nt	ХХ	Χ	Х		sulation		NA	NA	NA	NA		
Case Clea		X	Х	Х	Х		aps Tight		╢	X X	Х	Х	Tri	p Circui	t	*	*	*	*		
Relay Clea	ned	Х	Х	Х	Х	C	ontacts C	leaned	t	Х Х	Х	Х									
						ted at thi	is time. P	hase (Cata	alog Nun	nber-	4438	1241								
Ground Ca									_												
The main b																rmed					
Phase time Ground Tir									lane	eous was	siesi	eu ai	те 4 тар	ioi pici	rup.						
,										ا ما م											
Test O	perai	uon	s as							us)		\ <u>\</u>		ı	1						
ı	Dick	ın To	ete			Tests P.U. %	Instant		_	Pickup	_	S	Soal In								
	Tap 1	ıp Tes	ap 2	P.U.		400%	Pickup	Drop Ou		гіскир	Dr O	op ut	Seal In								
A Phase	6.24	_	NA	1.0		0.81	83.6	OK		NA	N	Α	NA		-+		+		\dashv		
B Phase	6.20	_	۱A	1.0	_	0.82	82.5	OK		NA	N		NA		-		+		\dashv		
C Phase	6.23	١	۱A	1.0	2	0.83	81.0	OK		NA	N	Α	NA				丁				
Ground	0.81	١	۱A	0.8	2	0.66	16.7	OK		NA	N	Α	NA								
Test O	nerat	ion	s a	s I e	ft	(Time	in Se	con	de												
10010	pora		- u			Tests	Instant			, 	IC	S					\top		\neg		
	Pickı	ір Те	sts	P.U.		P.U. %	Pickup	Drop	_	Pickup	Dr		Seal In								
	Tap 1		ap 2	300		400%		Ou				ut									
A Phase	6.24	١	١A	1.0	0	0.81	83.6	OK		NA	N	Α	NA				丁				
B Phase	6.20	_	۱A	1.0	_	0.82	82.5	OK	_	NA	N		NA				\bot				
C Phase	6.23		۱A	1.0		0.83	81.0	OK	_	NA	N		NA				\perp				
Ground	0.81	١	۱A	0.8	2	0.66	16.7	OK	į.	NA	N	Α	NA				\perp				



State of CT
Owner/User
Address 201 West Main Street, Niantic, CT
Equipment Location
Equipment Location
Circuit Identification Facility Facili
Relay Identification
Relay Information
Manufacturer Control Voltage Use Under Voltage Use Under Voltage Solid State Instruct Book Phase Instruct
Control Voltage Use Under Voltage Inst Range Phase Inst Range Phase Inst Range Phase Instruct Book Phase Instruct Bo
Use Coling Cover Gasket X X X NA Foreign Material X X X NA Foreign Material X X X NA Relay Cleaned X X X NA Remarks The Trip circuit was not tested at this time. Phase Catalog Number- 411T4175 Inst Range Ground Instruct Book Ground NA NA NA NA NA NA NA N
Instruct Book Phase 7.4.1.7-7
CS
CS
Specified As Found NA 90% 90% 90% NA 100 100 100 NA 2 2 2 2 NA
As Found NA 90% 90% 90% NA 100 100 100 NA 2 2 2 NA
Visual Inspection AØ BØ CØ G Cover Gasket
AØ BØ CØ G AØ
Cover Gasket
Cover Gasket X X X NA Glass X X X NA Foreign Material X X X X NA Foreign Material X X X X NA Bearing Condition NA NA NA NA NA NA NA NA NA NA NA NA NA
Foreign Material X X X NA Bearing Condition NA NA NA NA NA NA NA NA NA NA NA NA NA
Routine Maintenance AØ BØ CØ G Glass Cleaned X X X NA Case Cleaned X X X NA Relay Cleaned X X X NA Remarks The Trip circuit was not tested at this time. Phase Catalog Number- 411T4175 Tap 1 is pickup, Tap 2 is dropout
Glass Cleaned X X X NA Case Cleaned X X X X NA Relay Cleaned X X X X NA Trip Circuit was not tested at this time. Phase Catalog Number- 411T4175 AØ BØ CØ G X X X X NA
Glass Cleaned X X X NA Case Cleaned X X X X NA Relay Cleaned X X X X NA Taps Tight Contacts Cleaned X X X X NA Contacts Cleaned The Trip circuit was not tested at this time. Phase Catalog Number- 411T4175 Tap 1 is pickup, Tap 2 is dropout
Case Cleaned X X X NA Relay Cleaned X X X NA Contacts Cleaned X X X NA Contacts Cleaned X X X NA Trip Circuit * * * * I Remarks The Trip circuit was not tested at this time. Phase Catalog Number- 411T4175 Tap 1 is pickup, Tap 2 is dropout
Relay Cleaned X X X NA Contacts Cleaned X X X NA Contacts Cleaned X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X NA Contacts Cleaned X X X X X NA Contacts Cleaned X X X X X NA CONTACTS CLEANED TO CONTACT
Remarks The Trip circuit was not tested at this time. Phase Catalog Number- 411T4175 Tap 1 is pickup, Tap 2 is dropout
Tap 1 is pickup, Tap 2 is dropout
,
,
,
,
rest Operations as Found (Time in Seconds)
Timing Tools Instantaneous 100
Timing Tests Instantaneous ICS Pickup Tests P.U. % P.U. % Pickup Drop Pickup Drop Seal In
Tap 1 Tap 2 50% 0% Out Out
A Phase 99.89 93.29 2.02 2.02 NA NA NA NA NA
B Phase 99.85 91.86 2.03 2.03 NA NA NA NA NA
C Phase 99.88 91.94 2.02 2.02 NA NA NA NA NA
Ground NA NA NA NA NA NA NA NA
Test Operations as Left (Time in Seconds)
Timing Tests Instantaneous ICS
Pickup Tests P.U. % P.U. % Pickup Drop Pickup Drop Seal In
Tap 1 Tap 2 50% 0% Out Out
A Phase 99.89 93.29 2.02 2.02 NA NA NA NA NA
1αμ 1 1αμ 2 30 / 0 / 0



			2	05.205.0	,,,,									Te	est#	R24	of			
Customer	Sta	te of (СТ							Date			6/29/2	2021 J	ob#	21-268				
Address	201	Wes	t Mai	n Stre	et,	Niantic, (CT							Tempera	iture	20°C				
Owner/Use	er You	k Cor	rectio	nal F	acili	ty							Date La	ast Insped	ction	5/3/2016				
Address	201	Wes	t Mai	n Stre	et.	Niantic, (CT						Last Ins	ob#	16-200					
Equipment	Locatio	n l	23 K	V Swi	itcht	ooard								<u> </u>		_		_	\equiv	
Circuit Ider		- 6	52-U															_		
Relay Iden		- 1			er V	oltage			C	Γ Rati	, I	JΔ		P	Γ Ratio	20	0.1	_	=	
Relay I					O. V		CT Ratio NA													
_	-		011			Type I		<u> </u>	9N	1=0		_		Ground		NA				
Manufactu Control Vo	_	ABB 125 V	20		_		ange Pha Phase		00 - efini	150 v	olts P	U		ange Gro Ground	ound	NA NA				
Use		Under	_	age	-		ange Pha	<u> </u>		99%	DO	\dashv		ange Gro	und	NA			\longrightarrow	
Relay Type	_	Solid		-90	_		ct Book P	_	.4.1.					ct Book G		NA				
Setting	L	_												ī						
	_		~ 1		_	aneous	0	Λα	_	Tap S	`	_	0	4.0	Time [_				
Specified	ICS	A	0	BØ	,	CØ	G	AØ	-	BØ	C	0	G	AØ	BØ		CØ	- -	G	
As Found	NA	90	%	90%	6	90%	NA	140	1	140	15	0	NA	2	2	-	2	N	IA	
As Left	NA	90		90%	_	90%	NA	140	4	140	15		NA	2	2	1	2	<u> </u>	IA	
Visual	Inch	octi	<u></u>				<u> </u>													
Visuai	iiispt	_		СØ		7			Λ.Ο.	Ιρα	CØ		7			Δα	ВØ	CØ		
Cover Gas	ket	AØ X	BØ X	X	G NA	Ім	oisture	1	AØ X	BØ X	CØ X	G NA	Dis	sc Clearar	nce	AØ NA	NA	CØ NA	G NA	
Glass	inct	X	X	X	NA		piral Sprir	na	NA		NA	NA	Ru		100	X	X	X	NA	
Foreign Ma	aterial	Х	Х	Х	NΑ		earing Co	_	NA	_	NA	NA								
Routine Maintenance																				
Noutin	e ivia	AØ	ВØ	Icø	G	7			ΑØ	ВØ	СØ	G	٦			ΑØ	ВØ	CØ	G	
Glass Clea	aned	X	Х	X	NA		onnection	s Tight	X	Х	X	NA	Ins	ulation R	esist	NA	NA	NA	NA	
Case Clea		X	Х	X	NA		aps Tight		X	X	Х	NA	-	p Circuit	00.01.	*	*	*	NA	
Relay Clea	aned	Х	Х	Х	NA	C	ontacts C	leaned	Х	Х	Х	NA	┧┕							
Remarks	The Tr	ip circ	uit w	as no	t tes	ted at th	is time. P	hase Ca	talog	Num	ber- 4	411L	J6175							
The C-A v					cup 1	tolerance	and shou	uld be re	place	ed. It	s on	a hig	her Tap	to match	results.					
Tap 1 is pi																				
Test O	perat	ion	sas			•	me in	Seco	nds	s)										
						Tests		aneous			IC	_								
ĺ		p Tes		P.U.	_	P.U. %	Pickup	Drop Out	Pi	ckup	Dro Oı		Seal In							
A Phase	Tap 1 137.89	Ta 123		0.2	_	115% 0.20	NA	NA	١.	NA	N/		NA				_		_	
B Phase	138.05			0.2	_	0.20	NA	NA	4	NA NA	N/		NA				+		\dashv	
C Phase	138.63			0.2	_	0.20	NA	NA	_	NA	N/		NA				+			
Ground	NA	N	Α	NΑ	`	NA	NA	NA		NA	N/	Α	NA				1			
Toot O	norof	ion			.F4	/Timo	in So	oond	٠,						•					
Test O	perai	IOII	o as			`			<u>>)</u>		10			ı						
	Dick	p Tes	te	P.U.		Tests P.U. %	Instant Pickup	aneous Drop	D:	ckup	IC Dro	_	Seal In	ł						
	Tap 1	Ta		110		115%	i ickup	Out		υκυμ	Oi		Jean III							
A Phase	137.89			0.2	_	0.20	NA	NA		NA	N/	A	NA				+		\dashv	
B Phase	138.05			0.2	_	0.20	NA	NA	_	NA	N/		NA				十		\neg	
C Phase	138.63	124	.67	0.2	0	0.20	NA	NA		NA	N/	A	NA							
Ground	NA	N	Α	NΑ	\	NA	NA	NA		NA	N/	A	NA							



			203.269	.8778							٦	Γest#	R25	of	
Customer	Stat	te of CT	-					Da	te 🗀	6/29/2	2021	Job#	21-26	8	
Address	201	West N	/lain Str	eet,	Niantic, C	T				-	Tempera	ature	20°C		
Owner/Use	er Yorl	k Corre	ctional	Facili	ty					Date La	ast Inspe	ection		5/	3/2016
Address	201	West N	/lain Str	eet, l	Niantic, C	T				Last Ins	pection	Job#	16-20	0	
Equipment	Location	n 23	3 KV Sv	vitch	ooard										
Circuit Ider	ntification	n 52	2-U1												
Relay Iden	tification	R	everse	Powe	er			CT Ra	tio 150:5	5	F	PT Ratio	0 200:	1	
Relay I	nforn	natio	n		T		0.0	ND.		0-4-1-			,		_
Manufactu	rer 7	ABB			Type Tap R	ange		2R 7 - 20 w	atts	Catalog	g Numbe	1 4	122B127	3	_
Control Vo		125 VD0	C		Curve	- J-		efinite				Ė			_
Use		Reverse			Inst Ra	-	N								
Relay Type	e S	Solid Sta	ate		Instruc	t Book	7.	4.1.7-5				L			
Setting	15								Ī			1	The state of the s		
Ootting		Inst Settin	Ta g Set		Time Dial										
Specified	ICS	Octun	g oct	ung	Diai										
As Found	NA	NA	3.	.5	15										
As Left	NA	NA	3	.5	15										
Vieuel	lnono	otion	_												
Visual	inspe	CUOI	1												
Cover Gas	ket	Х		-	oreign M	1aterial	Х	_	Spiral Sprir		NA		sc Cleara	ance	NA
Glass		Х		1	Moisture		Х	L	Bearing Co	ndition	NA	Ru	ıst		Х
Routin	e Mai	nten	ance	!											
Glass Clea	aned	Х		F	Relay Cle	aned	Х	F	Taps Tight		Х	Ins	sulation F	Resist.	NA
Case Clea	ned	Х			Connection				Contacts C	leaned	X		p Circuit		*
Remarks	The Tri	n circuit	t was n	ot tos	ted at thi	s tima									
Kemarks	THE III	p circui	t was in	or ice	ica at tili	o unic.									
Test O	perati	ions	(Tim	e ir	n Seco	onds)									
	-		· 	imina	Tests	Instant	aneous	I	ICS		ı			I	
1	Picku	p Tests	P.U		P.U. %	Pickup	Drop	Pickur		Seal In	ł				
	Tap 1	Tap 2	_		400%	i ickup	Out	i ickuļ	Out	ocai III					
As Found	3.94	NA	15		15.23	NA	NA	NA	NA	NA					
As Left	3.94	NA	15	.23	15.23	NA	NA	NA	NA	NA					
İ															$\overline{}$
As Found															
As Left															
Remarks															
Submitted	By Sta	an MacN	/lillan						Equ	ipment U	sed M	lanta M	ITS 5000)	



			203.209.8778							•	Test #	# R26	of of	
Customer	Stat	e of CT					Da	te	6/29/2	2021	Job #	2 1-:	268	Ì
Address	201	West Ma	ain Street,	Niantic, C	T				-	Temper	ature	20°	С	
Owner/Use	er Yorl	c Correct	ional Facil	ity					Date La	ast Insp	ectior	ı 🗀	5/	3/2016
Address	201	West Ma	ain Street,	Niantic, C	T				Last Ins	pection	Job #	1 16-	200	
Equipment	Location	23	KV Switch	board										
Circuit Ider	ntification	52-	U1											
Relay Iden	tification	Un	der Freque	ency			CT Ra	tio NA			PT Ra	atio 20	00:1	
Relay I	nforn					0.	1		Catalag	a Numb	. .	422B1		_
Manufactu	rer [/	ABB		Type Tap R	ange	8°	1 4 - 63 Hz	,	Catalo	g Numbe	2 1	42261	2/5	
Control Vo		25 VDC		Curve	9		efinite							
Use	Ī	Jnder Fre	eq	Inst Ra	ange	N	A							
Relay Type		Solid Stat	e	Instruc	t Book	7.	4.1.7-5							
Setting	ıs	Inot	Ton	Time							1			
	ICS	Inst Setting	Tap Setting	Time Dial										
Specified														
As Found	NA	NA	59.50	3 cy										
As Left	NA	NA	59.50	3 cy										
Visual	Inspe	ction												
Cover Gas	ket	Х	ſ	Foreign M	1aterial	Х	[;	Spiral Sprir	ng	NA	Ī	Disc Cle	arance	NA
Glass		Х	•	Moisture		Х	_	Bearing Co		NA	Ī	Rust		Х
Doutin	- M-:						_				_			
Routin	e iviai	ntena	nce											
Glass Clea		Χ	[Relay Cle		Х		Taps Tight		Χ	L		n Resist.	NA
Case Clea	ned	Х		Connection	ons Tight	Χ	<u> </u>	Contacts C	leaned	Χ	Ľ	Trip Circ	uit	*
Remarks	The Tri	p circuit v	was not te	sted at thi	s time.									
Test O	perati	ons (Time i	n Seco	onds)									
			Timing	Tests	Instant	aneous		ICS		U/V Inl	hibit			
,	Picku	Tests	P.U. %	P.U. %	Pickup	Drop	Pickur		Seal In	1				
	Tap 1	Tap 2	90%	80%		Out		Out						
As Found	59.49	NA	6.5	6.6	NA	NA	NA	NA	NA	61.08				
As Left	59.49	NA	6.5	6.6	NA	NA	NA	NA	NA	61.08	3 V			
As Farred														
As Found As Left				+										
7.5 LOIL	<u> </u>			<u> </u>							<u> </u>		<u> </u>	
Remarks														
					_					_				
Submitted	By Sta	ın MacM	llan					Equ	uipment U	sed N	/lanta	MTS 50	00	



			203.269.8778							Te	est#	R27	of	
Customer	Sta	te of CT					Date	e	6/29/2	2021 J	ob#	21-268	;	
Address	201	West M	ain Street,	Niantic, C	Т				-	Temperat	ure	20°C		
Owner/Use	er Yor	k Correc	tional Facil	ity					Date La	ast Insped	ction		5/3	3/2016
Address	201	West M	ain Street,	Niantic, C	T				Last Ins	pection J	ob#	16-200		
Equipment	Location	n 23	KV Switch	board										
Circuit Ider	ntification	n 52	-U1											
Relay Iden	tification	Ov	er Frequer	ісу			CT Rat	io NA		P P	T Ratio	200:	i	
Relay I	nforn	natior	1								_			_
Manufactu	_	ABB	-	Type Tap R	ango	81	l - 63 Hz		Catalog	g Number	4:	22B1275		_
Control Vo	H	125 VDC	;	Curve	ange		efinite							_
Use	· ·	Under Fr		Inst R	ange	N/	4							
Relay Type	e [Solid Sta	te	Instruc	t Book	7.4	4.1.7-5							
Sotting														
Setting		Inst	Tap	Time										
0	ICS	Setting	Setting	Dial										
Specified As Found	NA	NA	60.50	60 cy										
As Left	NA	NA	60.50	60 cy										
	<u> </u>		•	-			Į.		I				-	
Visual	Inspe	ection	1											
Cover Gas	ket	Х		Foreign M	laterial	Х	S	Spiral Sprir	ng	NA	Dis	c Cleara	nce	NA
Glass		Х		Moisture		Х	В	Bearing Co	ndition	NA	Rus	st		Х
Dautin	- M-:													
Routin	e iviai	ntena	ince											
Glass Clea		Х	L	Relay Cle		Х		aps Tight		Х		ulation R	esist.	NA
Case Clea	ned	Х		Connection	ns Tight	Х	C	Contacts C	leaned	Χ	Trip	Circuit		*
Remarks	The Tri	ip circuit	was not te	sted at thi	s time.									
1														
Test O	perat	ions (Time i	n Seco	nds)									
			Timing	Tests	Instant	aneous		ICS		U/V Inhi	bit			
•	Picku	p Tests	P.U. %	P.U. %	Pickup	Drop	Pickup	Drop	Seal In					
<u> </u>	Tap 1	Tap 2	110%	120%	•	Out	·	Out						
As Found	60.50	NA	61.8	60.8	NA	NA	NA	NA	NA	59.84 \	_			
As Left	60.50	NA	61.8	60.8	NA	NA	NA	NA	NA	59.84 \	V			
As Farrad														
As Found As Left				-										
710 2011														
Remarks														
Cubmitted	Dv lo	on 14====	lillos		_			F	inmartii	and I		TO 5000		_
Submitted	Dy ∥Sta	an MacM	ıııan					⊨qı	ipment U	sea Ma	anta M	TS 5000		



			203.269.8778							Т	est#	R28	of	
Customer	Stat	te of CT					Da	te	6/29/2	2021	Job #	21-268	3	
Address	201	West N	//ain Street,	Niantic, C	T					Tempera	iture	20°C		
Owner/Use	er Yorl	k Corre	ctional Faci	lity					Date La	ast Inspe	ection		5/3	/2016
Address	201	West N	//ain Street,	Niantic, C	T				Last Ins	pection .	Job#	16-200)	
Equipment	Location	n 23	3 KV Switch	nboard										
Circuit Ider	ntification	52	2-U1											
Relay Iden	tification	C	urrent Bala	nce Relay			CT Ra	tio 150:5	5	P	T Ratio	NA		
Relay I						40	20		0-4-1-	. N	. 40			_
Manufactu	_	ABB		Type Tap R	ange		5D - 4 X rat	ina	Rating	g Numbe		7Q170 1 amps		_
Control Vo		125 VD0	0	Curve	90	_	efinite	9	raang		0.	· ampo		_
Use	0	Current	Balance	Inst R	ange	N	A							
Relay Type) [5	Solid Sta	ate	Instruc	t Book	7.	6.1.7-2							
Cottino														
Setting	JS 	Inst	Тар	Time										
	ICS	Settin	g Setting	Dial										
Specified As Found	NA	NA	4 X	4 sec										
As Found As Left	NA	NA NA	4 X	4 sec										
			<u> </u>	1										
Visual	Inspe	ection	1											
Cover Gas	ket	Х		Foreign M	1aterial	Х	;	Spiral Sprir	ng	NA	Disc	Cleara	nce	NA
Glass		Х		Moisture		Х		Bearing Co	ndition	NA	Rust	t		Х
Routin	e Mai	nten	ance											
				D 1 01			-	 				5		T [
Glass Clea		X		Relay Cle Connection		X	<u> </u>	Taps Tight Contacts C	loanod	X		lation R Circuit	esist.	NA *
Case Clea	ileu			Connection	nis rigiit		Ľ	Cornacis C	learieu	^	Пр	Circuit		
Remarks	The Tri	p circuit	t was not te	sted at thi	s time.									
Test O	perati	ions	(Time i	n Seco	onds)									
			Timin	g Tests	Instant	taneous		ICS		Pickup	B Pic	kup C		$\overline{}$
j	Picku	p Tests	P.U. %	P.U. %	Pickup	Drop	Pickup	-	Seal In	phase		hase		
	Tap 1	Tap 2		300%	. iokup	Out	. iokuļ	Out	OGGI III					
As Found	0.363	NA	3.88	3.83	NA	NA	NA	NA	NA	0.367	7 0	.372		
As Left	0.363	NA	3.88	3.83	NA	NA	NA	NA	NA	0.367	7 0	.372		
														$\overline{}$
As Found														
As Left														
Remarks														
Submitted	By Sta	an MacN	Millan					Equ	ipment U	sed M	anta MT	S 5000		



				.03.207.0770							Tes	t# R29	of
Customer	Sta	ate of C	T					Da	te	6/29/2	2021 Jol	21-268	
Address	20	1 West	Mai	n Street,	Niantic, C	т					Temperatur	re 20°C	
Owner/Use	er Yo	rk Corr	ectio	onal Facili	ty					Date La	ast Inspecti	on	5/3/2016
Address	20	1 West	Mai	n Street,	Niantic, C	T				Last Ins	pection Job	# 16-200	
Equipment	Location	n [23 K	V Switchl	ooard							,	
Circuit Ider		- P	52-L	J1									
Relay Iden	tification	, İ	Syno	Check				CT Ra	tio NA		PT	Ratio 200:1	
Relay I			-	- C.1.GG1.	Туре		2	5S		Catalo	g Number	424J2105	
Manufactu	rer I	ABB			Tap R	ange		- 80 Volt	s	Rating	y ivallibel	1 second	
Control Vo		125 VI	DC		Curve	Ü		efinite		3			
Use	j	Sync (Chec	k	Inst Ra	ange	N	A				<u> </u>	
Relay Type	•	Solid S	State	:	Instruc	t Book	7	.3.1.7-1					
Specified As Found	ICS NA	Ins Sett	ting	Tap Setting	Time Dial								
As Left	NA	N.		30 V	0.5 X								
Visual Cover Gas Glass		ection	on]	-	Foreign M Moisture	laterial	XX	<u> </u>	Spiral Sprir Bearing Co		NA NA	Disc Clearar Rust	nce NA
0.000		ـــــــا	J	Ľ				Ľ				. 1001	
Routin			nar	_	2-101-		1	F	T Tieb4		<u> </u>	In a staff or D	i-t [NA
Glass Clea		X			Relay Cle		X	<u> </u>	Taps Tight Contacts C		X	Insulation Re	esist. NA
0000 0100		ــــــــــــــــــــــــــــــــــــــ	J	L	30111100110	no rigit		L	oomadio o			THP CHOCK	
Remarks	The Ti	rip circ	uit w	as not tes	ted at thi	s time.							
Test O	perat	tions	T) a	ime ir	n Seco	nds)							
				Timing	Toete	Inetant	aneous		ICS		Phase	Phase	Slip
i	Diok	ıp Test	to I	P.U. %	P.U. %	Pickup	Drop	Pickur		Seal In	Angle Diff		Olip
	Tap 1	Tap		100%	NA	Ріскир	Out	Ficku	Drop Out	Searin	+		
As Found	29.79	N.		0.52	NA	NA	NA	NA	NA	NA	14.04°	14.14°	0.15 Hz
As Left	29.79	N.	Α	0.52	NA	NA	NA	NA	NA	NA	14.04°	14.14°	0.15 Hz
						1							
As Found			1										
As Left													
			•							•	•	•	
Remarks													
Submitted	D. C.	on 14:	ob 4:11	22		_			E	inmart!!	and I	ta MTS 5000	
		an 1\/12	r '11//1111	an					⊢aı	noment U	seu IIVian	ロコ マンコン かししし	



		2	03.269.8778							Te	est # R30	of	
Customer	State	of CT					Date	e 🗀	6/29/2	2021 J	ob # 21-2	68	
Address	201 W	Vest Mai	n Street,	Niantic, C	T					Temperat	ure 20°C	;	
Owner/Use	York (Correction	onal Facili	ty					Date La	ast Insped	ction	5/	3/2016
Address	201 W	Vest Mai	n Street,	Niantic, C	T T				Last Ins	pection Jo	ob # 16-2	00	
Equipment	Location	23 K	V Switchl	ooard									
Circuit Ider	ntification	52-L	J1										
Relay Iden	tification	Dire	ctional Un	it 67V			CT Rat	io 150:5	5	P-	T Ratio 20	D:1	
Relay I	nforma	ation		Туре		32	<u> </u>		Catalog	g Number	425P00	70	
Manufactu	rer AB	BB		Tap R	ange		- 90°		Catalo	y Mulliber	423100	70	
Control Vo		5 VDC		Curve	Ü	De	efinite						
Use	l l	ectional		Inst Ra	-	NA							
Relay Type	e So	lid State	:	Instruc	t Book	7.	8.1.7-2						
Setting	IS -						i					1	
		Inst Setting	Tap Setting	Time Dial									
Specified	103	3	3										
As Found	NA	NA	0°	Fixed									
As Left	NA	NA	0°	Fixed									
Visual	Inspec	tion											
Cover Gas	ket	Х	Г	Foreign M	1aterial	Х	S	Spiral Sprir	na T	NA	Disc Clea	rance	NA
Glass		X	-	Moisture		X	_	Bearing Co		NA	Rust		X
		<u> </u>	L			. L	<u>. </u>				-		
Routin	e Main	tenar	nce										
Glass Clea	ned	Х	Ī	Relay Cle	aned	Х	T	aps Tight		Х	Insulation	Resist.	NA
Case Clea	ned	Χ	(Connectio	ons Tight	Х	C	Contacts C	leaned	X	Trip Circu	it	*
Remarks	The Trip	circuit w	as not tes	sted at thi	s time								
	16	0.1100111	40	riou ut un	<u> </u>								
Top 1 is su	rront nick	ın at 0 d	ograss										
Tap 1 is cu	irrent pickt	ıp at u u	egrees										
Test O	peratio	ns (T	ime ir	n Seco	onds)								
			Timing	Tests	Instant	aneous		ICS		Torque	Torque		i
i	Pickup ⁻	Teete	P.U. %	P.U. %	Pickup	Drop	Pickup	-	Seal In	Angle	Angle		
		Tap 2	200%	NA	Покар	Out	Покар	Out	ocai iii	Minus @ amp	1 Plus @ 2 amp		
As Found	0.016A	NA	0.007	NA	NA	NA	NA	NA	NA	-90.15			
As Left	0.016A	NA	0.007	NA	NA	NA	NA	NA	NA	-90.15	° 90.34°		
Ī													
As Found As Left										+			
AS Leit													
Remarks													
Submitted	_	MacMill			_				ipment U	. —	anta MTS 500		



		•	203.209.8778							Т	est#	R31	of	
Customer	Stat	e of CT					Dat	te 🗌	6/29/2	2021	Job#	21-268	3	
Address	201	West Ma	in Street,	Niantic, C	CT			-	-	Tempera	ture	20°C		
Owner/Use	r York	Correcti	onal Facil	ity					Date La	ast Inspe	ction		5/3	3/2016
Address	201	West Ma	in Street,	Niantic, C	CT				Last Ins	pection J	lob#	16-200)	
Equipment	Location	23 k	(V Switch	board										
Circuit Iden	tification	52-l	J1											
Relay Ident	ification	Dire	ctional Ur	nit 67V			CT Rat	tio NA		P	T Ratio	200:	1	
Relay li	nform	nation		Tuno		4-	71.1		Catala	n Niconala a	. 44	001047		_
Manufactur	er 🖪	ABB		Type Tap R	ange		7H) V - 120	V	Catalog	g Numbe	41	2N0175)	_
Control Volt		25 VDC		Curve	9		st	•						
Use		Directiona	IV	Inst R	ange)% - 98%	6						
Relay Type	IS	Solid State	9	Instruc	ct Book	7.	4.1.7-2							
Setting	•				_									
Setting		Inst Setting	Tap Setting	Time	Pickup	Dropo	out							
Cresified	ICS	Setting	Setting	Dial										
Specified As Found	NA	NA	NA	Inst	100 V	90%								
As Left	NA	NA	NA	Inst	100 V	90%								
_									I			JL.		
Visual I	Inspe	ction												
Cover Gasl	ket	Χ		Foreign M	1aterial	Χ	3	Spiral Sprir		NA	Disc	: Cleara	nce	NA
Glass		Χ		Moisture		Χ	E	Bearing Co	ndition	NA	Rus	t		Х
Routine	e Mai	ntena	nce											
Glass Clear	ned	Х	Г	Relay Cle	aned	Х	Г	Гарs Tight		Х	Insu	lation R	esist	NA
Case Clear		X	<u> </u>	Connection		X	_	Contacts C		X		Circuit		*
Damanta	The Tail		L	.4	. 4:									
Remarks	Tine in	p circuit w	as not tes	sted at thi	s time.									
Tap 1 is A	phase pi	ckup, Tap	o 2 is C ph	nase picki	up									
Test Op	oerati	ons (Γime iι	n Seco	onds)									
			Timing	Tests	Instant	aneous		ICS		A Phas		Phase		
Γ	Pickup	Tests	P.U. %	P.U. %	Pickup	Drop	Pickup		Seal In	Dropo	ut Di	ropout		
	Tap 1	Tap 2	A 50%	C 50%		Out		Out						
	106.92	107.24	0.04	0.04	NA	NA	NA	NA	NA	89.24		9.71 V		
As Left	106.92	107.24	0.04	0.04	NA	NA	NA	NA	NA	89.24	V 89	9.71 V		
As Found														
As Found As Left														
					l									
Remarks														
Submitted E	Dv C+-	n MacMil	lon		_			E~:	inment II	sod II	anta MT	-C E000		_
	ว∨ ⊪ราล	ıı ıvıacıvıll	ıdii					⊏ql	ipment U	ocu ∥W	anta M I	S 2000		



			2.	33.203.0	,,,,									Τe	est#	R32	of		
Customer	Sta	ite of (СТ							Date			6/29/2	2021 J	ob#	21-2	68		
Address	20	1 Wes	t Mai	n Stre	eet, I	Niantic, (CT							Tempera	ture	20°C	;		
Owner/Use	r Yo	rk Cor	rectic	nal F	acili	ty							Date La	ast Insped	ction			5/3/2	2016
Address	20	1 Wes	t Mai	n Stre	eet, l	Niantic, (СТ						Last Ins	pection J	ob#	16-2	00		
Equipment	Location	n I	23 K	V Sw	itcht	oard								-		,			
Circuit Ider	ntificatio		52-U															_	
Relay Iden		- 5			l Ov	er Curre	nt		СТ	Rati	o 1	50:5	j	P	Γ Ratio	NA		_	
Relay I								l=			. J.:	_							
Manufactu	-	ABB			_	Type I	⊇hase ange Pha	<u> </u>	0D X - 1	10 X F	Patino	_		Ground lange Gro	und	NA NA			
Control Vo	_	125 V	DC				Phase		efinit		vaung	-		Ground	uliu	NA			
Use	L	DIR O	vercu	ırrent			ange Pha	se N	Α					ange Gro	und	NA			$\overline{}$
Relay Type	• [Solid (State			Instru	ct Book P	hase 7	.2.1.7	7-3			Instru	ct Book G	round	NA			
Setting	s	1		Inot	onto	nooue				Tan C	attin			1	Time	Dial C	ottina		\equiv
	Instantaneous Tap Setting ICS AØ BØ CØ G AØ BØ CØ												G	AØ	Time [_	CØ	(G
Specified	fied											_		712		+	-	Ť	
As Found	NA	N	Α	NA	٨	NA	NA	1 X	1	ΙX	1.	Χ	NA	0.1	0.1	-	0.1	N	IA
As Left	NA	N	A	NA	4	NA	NA	1 X	1	١X	1.	Χ	NA	0.1	0.1	-	0.1	N	IA
Visual	Insp	ectio	on																
	AØ BØ CØ G															ΑØ	ВØ	CØ	G
Cover Gas	ket	Х	Χ	Χ	NA	M	oisture		Χ	Х	Χ	NA	Dis	sc Clearai	nce	NA	NA	NA	NA
Glass		X	Х	Х	NA		piral Sprir	_	NA	NA	NA	NA	Ru	st		Χ	Х	Χ	NA
Foreign Ma		Х	Х	Х	NA	. B	earing Co	ndition	NA	NA	NA	NA							
Routin	е Ма	inte	nar	ıce															
		ΑØ	ВØ	CØ	G				ΑØ	ВØ	CØ	G] _			ΑØ		CØ	G
Glass Clea		X	Х	X	NA		onnection	s Tight	X	X	Х	NA	-	ulation R	esist.	NA *	NA *	NA	NA
Case Clea Relay Clea		X	X	X	NA NA		aps Tight ontacts C	loanod	X	X	X	NA NA	In	p Circuit		Î	Î		NA
					_				_										
Remarks	The Ti	ip circ	uit w	as no	t tes	ted at th	is time. P	hase Ca	talog	Num	ber- 4	468T	2575, Ra	ating 0.8 a	ımps				
																		_	_
Test O	perat	ions	s as	s Fo	ur	ıd (Tiı	me in	Seco	nds	3)									
			[Tests		aneous	T	,	IC	S		I			\top		\neg
	Picku	ıp Tes	ts	P.U.		P.U. %	Pickup	Drop	Pi	ckup	Dro	р	Seal In						
	Tap 1	Ta	o 2	300	%	400%		Out			Oı	ut							
A Phase	0.83	N		0.09	_	0.098	NA	NA	4	NA	N.		NA						
B Phase	0.83	N		0.09	_	0.098	NA	NA	4	NA.	N.		NA				—		
C Phase Ground	0.84 NA	N N		0.09 NA		0.098 NA	NA NA	NA NA	_	NA NA	N.		NA NA				+		_
Oround	INA		^	147	`	11/7	INA	INA		1/1	1 17	_	IVA		J				
Test O	perat	ions	sas	s Le	eft ((Time	in Se	cond	s)										
		Tests	Instant	aneous			IC	S											
ı		ıp Tes		P.U. %	Pickup	Drop	Pi	ckup	Dro		Seal In								
A Discour	Tap 1	Ta		300	_	400%	NIA	Out	╄.		O		NI A				+		_
A Phase B Phase	0.83	N N		0.09	_	0.098	NA NA	NA NA	_	NA NA	N.		NA NA				+		\dashv
C Phase	0.84	N		0.08	_	0.098	NA NA	NA	4	NA NA	N.		NA				+		\dashv
Ground	NA	N		NA		NA	NA	NA	_	NA	N.		NA				\top		\dashv



			20)3.269.8	3778									Te	est#	R33	of	f [
Customer	Stat	e of (CT						\neg	Date	Г		6/29/2	2021 J	ob#	21-2	68		
Address	201	Wes	t Maii	n Stre	eet, l	Niantic, (CT							Tempera	iture	20°C			
Owner/Use	r York	Cor	rectio	nal F	acili	tv							Date La	ast Insped	ction			5/5/2	2016
Address						Niantic, (CT							pection J		16-2	200		
Equipment		1		V Sw															
Circuit Ider		- 5	52-S																
Relay Iden		- 1		e Ov	ercu	rrent			C	T Ratio	<u>. 1</u>	00:5		P-	T Ratio	NA			
•					Ciou	iront				T TOUR	, L				rtatio	1147	,		
Relay I	_		011			Type I			1 I					Ground		NA			
Manufactu	_	.BB 25 V	DC		_		ange Pha Phase	_		6 amp	S	_		ange Gro	ound	NA NA			
Control Vol			urren	t	_		Phase ange Pha	<u> </u>	vers	20 X				ange Gro	und	NA			
Relay Type		olid S			一		ct Book P	_		.7-14		-		ct Book G		NA			
Setting	_																		
oounig.			~ 1			aneous	0	. ~		Tap S		_	G	. ~	Time I	_			
Specified														AØ	BØ		CØ	<u> </u>	G
As Found	und NA 20 X 20 X 20 X NA 6 6 6													8	8	+	8	N.	ΙA
As Left	NA 20 X 20 X 20 X NA 6 6												NA NA	8	8		8	_	ΙA
Visual	al Inspection																		
Visuai	UAI INSPECTION AØ BØ CØ G AØ BØ CØ CØ															ΑØ	ВØ	СØ	G
Cover Gas													Dis	sc Cleara	nce	NA	NA	NA	NA
Glass		Х	Х	Х	NA		piral Sprir	ng	NA		NA	NA NA	Ru			Х	Х	Χ	NA
Foreign Ma	aterial	Х	Χ	Χ	NA	В	earing Co	ndition	NA	A NA	NA	NA	j –						
Routin	e Mai	nte	nan	се															
		ΑØ	ВØ	СØ	G	7			AQ	ВØ	СØ	G	1			ΑØ	ВØ	CØ	G
Glass Clea	ined	Х	Χ	Χ	NA	C	onnection	s Tight	Х	Х	Χ	NA	Ins	ulation R	esist.	NA	NA	NA	NA
Case Clea		Χ	Χ	Χ	NA		aps Tight		Χ		Χ	NA	Tri	p Circuit		*	*	*	NA
Relay Clea	ined	Х	Χ	Χ	NA	C	ontacts C	leaned	Х	Х	Χ	NA	_						
Remarks	The Trip	o circ	uit wa	as no	t tes	ted at th	is time. P	hase Ca	talo	g Num	ber- 4	143T	1241						
The main b																rmed			
Phase time	es: 300%	- 4.8	seco	nas,	400	%- 3.9 Se	econas, ir	istantan	eous	s was t	estec	att	ne 4 tap i	or pickup). 				_
Table O	4!					I /T:		0		-1									
Test O	perati	ons	s as			•			na	S)	10			1					_
ı	Pickup	Toc	to	P.U.		Tests P.U. %	Pickup	aneous Drop		Pickup	IC Dro		Seal In						
	Tap 1	Ta		300		400%	Гіскир	Out		іскир	Ot		Seal III						
A Phase	6.02	N	_	4.7		3.78	81.7	OK	1	NA	N/	Ą	NA				+		
B Phase	6.02	N	Α	4.7	0	3.77	81.4	OK		NA	N/	Ą	NA						
C Phase	6.02	N	A	4.7	0	3.77	81.2	OK		NA	N/	Ą	NA						
Ground	NA	N	A	NA	4	NA	NA	NA		NA	N/	4	NA						
Test O	perati	ons	s as	s Le	eft	(Time	in Se	cond	s)										
'	•		Ī			Tests		aneous	Ť		IC	S			T				
	Pickup Tests P.U. % P.U. % Pickup Drop Pickup D											р	Seal In	ſ					
	1ap 1 1ap 2 300 / 400 /											ut							
A Phase	6.02	N		4.7		3.78	81.7	OK	4-	NA	N/		NA				$\bot\!$		
B Phase													NA		_		\bot		
C Phase Ground	6.02 NA	N N		4.7 NA		3.77 NA	81.2 NA	OK NA	_	NA NA	N/		NA NA		-		$+\!\!\!\!-$		—
Ground	INA	I۷	^	INF	`	INA	INA	INA		INA	14/	٦.	INA						



			203.269.8778							٦	Γest #	R34	of	
Customer	Stat	e of CT					Date	е	6/29/2	2021	Job#	21-268	3	
Address	201	West M	ain Street,	Niantic, C	T				٦	Гетрега	ature	20°C		
Owner/Use	er York	k Correc	tional Facil	ity					Date La	st Inspe	ection		5/3	3/2016
Address	201	West M	ain Street,	Niantic, C	T				Last Insp	ection	Job#	16-200		$\overline{}$
Equipment	Location	23	KV Switch	board										
Circuit Ider	ntification	52-	SDF1											
Relay Iden	tification	Gro	ound Over	current			CT Rat	io 50:5		F	PT Ratio	NA NA		
Relay I	nforn	natior	1	_							_			
Manufactu	_	\BB		Type Tap R	ango	50	X - 10 X	Datina	Catalog Rating	Numbe		18S0541	ı	_
Control Vo		25 VDC		Curve	ange	In:		rtaung	rtating		F	.o amps		_
Use		0G over	current	Inst Ra	ange	N/	4							
Relay Type	9 9	Solid Sta	te	Instruc	t Book	7.	2.1.7-5							
Setting	10													
Setting		Inst Setting	Tap	Time Dial										
Consideral	ICS	Setting	Setting	Diai										
Specified As Found	NA	NA	1.6 X	INST										
As Left	NA	NA	1.6 X	INST										
	_		•			·	JI.							
Visual	Inspe	ection												
Cover Gas	ket	Х	Ī	Foreign M	laterial	Х	S	Spiral Sprir	ng	NA	Dis	c Cleara	nce	NA
Glass		Χ		Moisture		Х	В	Bearing Co	ndition	NA	Ru	st		Х
Doutin	a Mai	ntono												
Routin	e iviai	ntena	ince											
Glass Clea		Χ	<u> </u>	Relay Cle		Х		aps Tight		Χ		ulation R	lesist.	NA
Case Clea	ned	Х	Ľ	Connection	ns Tight	Х	C	Contacts C	leaned	Χ	Trip	o Circuit		*
Remarks	The Tri	p circuit	was not tes	sted at thi	s time.									
1														
Test O	perati	ions (Time in	n Seco	onds)									
			Timing	Tests	Instant	aneous		ICS						
İ	Picku	o Tests	P.U. %	P.U. %	Pickup	Drop	Pickup	Drop	Seal In					
) 	Tap 1	Tap 2	300%	NA		Out		Out						
As Found	1.42	NA	0.013	NA	NA	NA	NA	NA	NA					
As Left	1.42	NA	0.013	NA	NA	NA	NA	NA	NA					
														\neg
Λ - Γ														
As Found As Left														
7.0 20.0														
Remarks														
O. dr. ''' :	D				_		_		Te		TO 5000		_	
Submitted	By Sta	n MacM	ilian					Equ	ipment U	sea M	ianta M	TS 5000		



			20	03.269.8	3778									Te	est#	R35	of	· [\Box
Customer	State	e of C	CT							Date	Г		6/29/2	2021 J	ob#	21-2	68		\equiv
Address	201	West	t Maii	n Stre	eet,	Niantic, (CT							Tempera	iture	20°C	;		
Owner/Use	r York	Cori	rectio	nal F	acili	tv							Date La	ast Insped	ction			5/5/2	2016
Address						Niantic, (CT					_		pection J		16-2			
Equipment		le:		V Sw										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1		_	=
Circuit Ider		i i	52-S			, our u													
Relay Iden		- A		e Ov	orcu	rrent			C	Γ Rati	<u>. 1</u>	00:5	-	P	T Ratio	NA			
,					Cicu	ii Giit			O.	i itali	у <u>Г</u>	00.0	,		rtatio	IIV/	`		
Relay I	_		OH			Type I			1 I					Ground		NA			
Manufactu	_	BB	20		_		ange Pha	_		amp	S	_		ange Gro	ound	NA			
Control Vo	- J	25 VI verci		+			Phase ange Pha		vers X - 2			-		Ground ange Gro	und	NA NA			
Relay Type	<u> </u>	olid S			_		ange Fna ct Book P	· -	2.1.			\dashv		ct Book G		NA			
	ettings Instantaneous Tap Setting																		
Octinig.	ICS AØ BØ CØ G AØ BØ CØ													. ~	Time [_			
Chasified	pecified													AØ	BØ	+	CØ	_	3
As Found	Found NA 20 X 20 X 20 X NA 6 6 6												NA	7	7		7	N	IA
As Left													NA	7	7	+	7		IA
Vieual	isual Inspection																		
Visuai	sual Inspection AØ BØ CØ G AØ BØ CØ G															ΑØ	ВØ	СØ	G
Cover Gas	AØ BØ CØ G Over Gasket X X X NA Moisture X X X												Dis	sc Cleara	nce	NA	NA	NA	NA
Glass		Х	Х	Х	NA		piral Sprir	ng	NA	NA	NA	NA NA	Ru			X	Х	X	NA
Foreign Ma	aterial	Х	Х	Х	NΑ	В	earing Co	ndition	NA	NA	NA	NA	1 -						
Routin	e Maiı	nte	nan	ıce									_						
		ΑØ	ВØ		G	7			ΑØ	ВØ	СØ	G	7			ΑØ	ВØ	СØ	G
Glass Clea	ined	Χ	Х	Χ	NA	С	onnection	s Tight	Х	Х	Χ	NA	Ins	ulation R	esist.	NA	NA	NA	NA
Case Clea		Χ	Χ	Χ	NA	. Ta	aps Tight		Х	Х	Χ	NA	Tri	p Circuit		*	*	*	NA
Relay Clea	ined	Χ	Χ	Χ	NA	C	ontacts C	leaned	Х	Χ	Χ	NA							
Remarks	The Trip	circ	uit wa	as no	t tes	ted at th	is time. P	hase Ca	talog	Num	ber- 4	143T	1241						
The main b																rmed			
Phase time	es: 300%	- 4.6	seco	nas,	400	%- 3.4 Se	econas, ir	istantane	eous	was t	estec	att	ne 4 tap i	or pickup).				_
T10				_		/=:	·	^											
Test O	perati	ons	as			•			nas	5)				T			-		
	Pickup	Too	to	P.U.		Tests P.U. %	Pickup	aneous	Di	ckup	IC		Seal In						
	Tap 1	Tar		300		400%	Pickup	Drop Out		скир	Dro Ou		Searin						
A Phase	6.01	N.	_	4.3		3.48	81.7	OK	1	NA	N/	Ą	NA						_
B Phase	6.01	N.		4.3		3.47	81.7	OK		NA	N/		NA						
C Phase	6.00	N.	Α	4.3	3	3.47	81.7	OK	١	NΑ	N/	4	NA						
Ground	NA	NA	1	NA	N/	Ą	NA												
Test O	perati	ons	s as	s Le	eft	(Time	in Se	cond	s)										
Timing Tests Instantaneous											IC	S							\neg
Pickup Tests P.U. % P.U. % Pickup Drop Pick											Dro		Seal In						
	Tap 1 Tap 2 300% 400% Out											it							
A Phase	6.01	N.		4.3	_	3.48	81.7	OK	4-	NA	N/		NA						
	B Phase 6.01 NA 4.32 3.47 81.7 OK NA											Α	NA				4		_
C Phase Ground	C Phase 6.00 NA 4.33 3.47 81.7 OK NA NA Ground NA NA NA NA NA NA NA NA NA											NA NA				+		_	
Ground	NA	IN.	^	INF	١	NA	NA	NA		1 /\	IN/	٦,	INA						



		2	203.269.8778							-	Test #	R36	of	
Customer	State	of CT					Dat	e	6/29/2	021	Job#	21-268	3	
Address	201 V	West Ma	in Street,	Niantic, C	T				Т	empera	ature	20°C		
Owner/Use	r York	Correction	onal Facili	ty					Date La	st Inspe	ection		5/5	5/2016
Address	201 V	West Ma	in Street,	Niantic, C	T				Last Insp	ection	Job#	16-200)	
Equipment	Location	23 k	(V Switchl	ooard										
Circuit Iden	tification	52-5	SDF2											$\overline{}$
Relay Ident	ification	Gro	und Overd	urrent			CT Rat	tio 50:5		F	PT Ratio	NA		
Relay li	nform	ation		Туре		50	`		Catalaa	Numbe		18S0541		_
Manufactur	er A	3B		Tap R	ange		X - 10 X	Rating	Catalog Rating	Nullibe	-	.8 amps		_
Control Volt	tage 12	25 VDC		Curve	Ū	In			Ü					
Use	L.	G overc		Inst Ra	-	NA								
Relay Type	So	olid State	•	Instruc	t Book	7	2.1.7-5							
Setting	S r		-	-							1			
ر آ	ICS	Inst Setting	Tap Setting	Time Dial										
Specified	100													
As Found	NA	NA	1.6 X	INST										
As Left	NA	NA	1.6 X	INST										
Visual I	Insped	ction												
Cover Gasl	ket	Х	Ī	oreign M	laterial	Х	5	Spiral Sprir	ng	NA	Dis	c Cleara	nce	NA
Glass		Χ		Moisture		X		Bearing Co		NA	Rus	st		Х
Routine	e Main	itenai	nce											
Glass Clear	ned	Х	Ī	Relay Cle	aned	Х	ī	Γaps Tight	11	Х	Inst	ulation R	esist.	NA
Case Clear	ned	Χ		Connectio	ns Tight	Х	C	Contacts C	leaned	Х	Trip	Circuit		*
Remarks	The Trip	circuit w	as not tes	ted at thi	s time.									
Test Op	peratio	ons (1	Γime ir	n Seco	nds)									
			Timing	Tests	Instant	taneous	1	ICS						
Γ	Pickup	Tests	P.U. %	P.U. %	Pickup	Drop	Pickup		Seal In					
f	Tap 1	Tap 2	300%	NA		Out		Out					L	_
As Found	1.41	NA	0.005	NA	NA	NA	NA	NA	NA					
As Left	1.41	NA	0.005	NA	NA	NA	NA	NA	NA					
Γ				1										
As Found As Left														
7 to Left														
Remarks														
0 1 22 2 =					_									_
Submitted E	⊰y ∥Stan	MacMil	lan					Equ	ipment Us	sed N	/lanta M	TS 5000		



														-	Γest#	R37	0	f L	
Customer	Stat	e of (СТ							Date	: [6/29/2	2021	Job#	21-2	68		
Address	201	Wes	t Mai	n Stre	eet, I	Niantic, C	CT							Tempe	rature	20°C			
Owner/Use	er York	(Cor	rectio	nal F	acili	ty							Date La	ast Insp	ection			5/5/2	2016
Address	201	Wes	t Mai	n Stre	eet, l	Niantic, C	CT						Last Ins	pection	Job#	16-2	00		
Equipment	Location	,	23 K	V Sw	itcht	ooard								<u> </u>					
Circuit Ider		- 1	52-S																
Relay Iden		i i		e Ov	orcu	rrent			ГСТ	Rati	o 11	00:5			PT Ratio	NA			
		,		e Ov	CICU	ii eiit			CI	rvau	о <u>Г</u>	00.5		'	i italio	IIV			
Relay I	ntorm	nati	on			Type F	Phase	5	1 I				Туре	Ground		NA			
Manufactu	_	BB					ange Pha	_		amp	S			ange G		NA			
Control Vo	Ŭ –	25 VI					Phase	<u> </u>	nvers			_		Ground		NA			
Use	—	olid S		t			ange Pha	_	X - 2			_		ange G		NA NA			
Relay Type		oliu s	state			instruc	t Book P	nase 7	.2.1.	7-14			instru	ct Book	Ground	INA			
Setting	S			Inst	anta	aneous				Tap S	Setting	g		Ī	Time	Dial S	etting		
	ICS	A	Ø	BØ	Ď	CØ	G	ΑØ	E	3Ø	C	Ø	G	ΑØ	ВØ		CØ	(G
Specified																			
As Found	NA	20		20		20 X	NA	6		6	6		NA	7	7	_	7		IA
As Left	NA	20	Χ	20	X	20 X	NA	6		6	6	6	NA	7	7		7	N	IA
Visual	Inspe	ctio	on																
		ΑØ	ВØ	CØ	G				ΑØ	ВØ	СØ	G	1			ΑØ	ВØ	CØ	G
Cover Gas	ket	Х	Х	Х	NA	М	oisture		Х	Х	Х	NA	Dis	sc Clear	ance	NA	NA	NA	NA
Glass		Χ	Χ	Χ	NA	ι S _l	oiral Sprir	ng	NA	NA	NA	NA	Ru	st		Х	Х	Х	NA
Foreign Ma	aterial	Χ	Χ	Χ	NA	В	earing Co	ndition	NA	NA	NA	NA							
Routin	e Mai	nte	nar	ice															
		ΑØ	ВØ	CØ	G	7			ΑØ	ВØ	СØ	G	1			ΑØ	ВØ	СØ	G
Glass Clea	aned	Х	Х	Х	NA	(C	onnection	s Tight	Х	Х	Χ	NA	Ins	sulation	Resist.	NA	NA	NA	NA
Case Clea	ned	Х	Х	Х	NA	Ta	aps Tight		Х	Х	Х	NA	Tri	p Circui	t	*	*	*	NA
Relay Clea	aned	Χ	Χ	Χ	NA	C	ontacts C	leaned	Χ	Χ	Χ	NA]						
Remarks	The Tri	o circ	uit w	as no	t tes	ted at th	s time. P	hase Ca	talog	Num	ber- 4	443T	1241						
The main I	breaker v	vill trip	bef	ore th	e fe	eder brea	akers bec	ause of	settir	ngs, a	coor	dina	tion study	/ should	be perfo	rmed			
Phase time	es: 300%	- 4.6	seco	nds,	400°	%- 3.4 s∈	conds, Ir	stantan	eous	was t	estec	d at t	he 4 tap t	for picku	ıp.				
Test O	perati	ons	as	Fo	ur	nd (Tir	ne in	Seco	nds	s)									
	•		Ī			Tests		aneous			IC	S					\top		\neg
	Picku	o Tes	ts	P.U.	%	P.U. %	Pickup	Drop	Pi	ckup	Dro	р	Seal In						
	Tap 1	Tap	2	300	%	400%		Out			O	ut							
A Phase	5.99	N		4.3	0	3.47	80.9	OK	1	NΑ	N.		NA						
B Phase	5.99	N		4.2	_	3.45	81.1	OK	_	NΑ	N.		NA						
C Phase	5.99	N		4.2		3.45	81.0	OK	_	NA.	N.		NA				\bot		_
Ground	NA	N	A	NA	١.	NA	NA	NA	ſ	NΑ	N.	A	NA						
Test O	perati	ons	as	s Le	eft ((Time	in Se	cond	s)										
	•		Ī			Tests		aneous	Ť		IC	S					\top		
	Picku	o Tes	ts	P.U.		P.U. %	Pickup	Drop	Pi	ckup	Dro	_	Seal In	1					
	Tap 1	Tap		300		400%		Out		•	Oı								
A Phase	5.99	N	A	4.3	0	3.47	80.9	OK	1	NΑ	N.	A	NA						
B Phase	5.99	N		4.2	_	3.45	81.1	OK	_	NA	N.		NA				工		
C Phase	5.99	N		4.2		3.45	81.0	OK		۱A	N.		NA				丄		
Ground	NA	N	Α	NΑ	١	NA	NA	NA	1	NA	N.	Α	NA						J



			2	03.269.8778								Test#	R38	of	
Customer	Sta	te of C	T					Da	te	6/29/2	2021	Job#	21-268	3	
Address	201	West	Mai	n Street,	Niantic, C	T				-	Temper	ature	20°C		
Owner/Use	er Yor	k Corr	ectio	onal Facili	ty					Date La	ast Insp	ection		10/29	9/2018
Address	201	West	Mai	n Street,	Niantic, C	Т				Last Ins	pection	Job#	18-427	7	
Equipment	Location	n [23 K	V Switchl	ooard										
Circuit Ider	ntification	n [52-S	DF3											
Relay Iden	tification	Ī	Grou	und Overd	urrent			CT Ra	tio 50:5			PT Ratio	NA NA		
Relay I	nforn	natio	on		_										
Manufactu	_	ABB			Type Tap Ra	anne	51	1 I 5 - 6 am	ne	Catalog	g Numb	er 4	43S1241		_
Control Vo	- H	125 VE	DC		Curve	ango		verse	ipo			_ h			_
Use		51G ov	verc	urrent	Inst Ra	ange	2 1	tap - 20	tap						
Relay Type) -	Solid S	State	:	Instruc	t Book	7.	2.1.7-1							
Sotting															
Setting		Ins		Tap	Time										
Cassified	ICS	Sett	ing	Setting	Dial										
Specified As Found	NA	12	X	2	5										
As Left	NA	12		2	5										
									JL			1			
Visual	Inspe	ectio	n												
Cover Gas	ket	Х		[i	oreign M	laterial	Χ	ſ	Spiral Sprir	ng	NA	Dis	c Cleara	nce	NA
Glass		Х		Ī	Moisture		Χ		Bearing Co		NA	Ru	st		Х
Davidia	- N/-:	4													
Routin	e iviai	nter	ıar	ice											
Glass Clea	aned	Х		[Relay Cle	aned	Х		Taps Tight		Χ	Ins	ulation R	Resist.	NA
Case Clea	ned	Х			Connectio	ns Tight	Χ		Contacts C	leaned	Χ	Trip	p Circuit		*
Remarks	The Tri	ip circu	uit w	as not tes	ted at thi	s time.									
Trip times:	200%- 2	2 9 sec	cond	ls 400%-	2.4 seco	nds									
1				.0, 10070											
Test O	perat	ions	(T	ime ir	n Seco	nds)									
				Timing	Tests	Instant	aneous	1	ICS						\neg
,	Picku	p Test	s	P.U. %	P.U. %	Pickup	Drop	Picku	p Drop	Seal In					
,	Tap 1	Тар		300%	400%		Out		Out						
As Found	1.99	N/		2.98	2.40	24.3	OK	NA	NA	NA					
As Left	1.99	N/	4	2.98	2.40	24.3	OK	NA	NA	NA					
A - E															
As Found As Left															
710 2011															
Remarks															
Submitted	By Sta	an Mad	cMill	an					Equ	ipment U	sed I	Manta M	TS 5000		



			20	3.269.8778							Т	est#	R39	of	
Customer	Sta	te of CT	_					Da	te	6/29/2	2021	Job#	21-268		
Address	201	West N	Mair	n Street, I	Niantic, C	T					Tempera	ture	20°C		
Owner/Use	er Yor	k Corre	ctio	nal Facili	ty					Date La	ast Inspe	ction		5/6	/2016
Address	201	West N	Mair	n Street, I	Niantic, C	T				Last Ins	pection J	Job#	16-200		
Equipment	Location	n 2	3 K\	√ Switcht	ooard										
Circuit Ider	ntification	n 52	2-B	T											
Relay Iden	tification	s	ync	Check				CT Ra	itio NA		P	T Ratio	200:1		
Relay I			-		Туре		24	5S		Catalog	n Numbo	r 4	24J2105		_
Manufactu	rer 7	ABB			Tap R	ange		- 80 Vol	ts	Rating	g Numbe		second		_
Control Vo	- H	125 VD	С		Curve	. J.		efinite				Ė			_
Use	E-1	Sync Ch		<	Inst Ra	-	N.								
Relay Type	9	Solid St	ate		Instruc	t Book	7.	3.1.7-1							
Setting	16														
Setting		Inst Settin		Tap	Time										
Coocifical	ICS	Settil	ıy	Setting	Dial										
Specified As Found	NA	NA	ł	30 V	0.5 X										
As Left	NA	NA	1	30 V	0.5 X										
					<u> </u>		· · · · · · · · · · · · · · · · · · ·		!!				, , , , , , , , , , , , , , , , , , ,		
Visual	Inspe	ectio	n												
Cover Gas	ket	Х		F	oreign M	laterial	Χ	Ţ.	Spiral Sprir	ng	NA	Dis	c Clearar	nce	NA
Glass		Х		N	Moisture		Х		Bearing Co	ndition	NA	Rus	st		Х
D 41				_											
Routin	e Mai	nten	an	ice											
Glass Clea	aned	Х		F	Relay Cle	aned	Х	F	Taps Tight		Х	Insi	ulation R	esist.	NA
Case Clea	ned	Х		(Connectio	ns Tight	Χ		Contacts C	leaned	Χ	Trip	Circuit		*
Remarks	The Tri	p circui	t wa	as not tes	ted at thi	s time.									
	1														
Test O	perat	ions	(T	ime ir	Seco	nds)									
			` -								T = .				
•				Timing			aneous		ICS		Phase Angle D		Phase gle Diff -	Sli	ρ
•		p Tests	_	P.U. %	P.U. %	Pickup	Drop Out	Picku	p Drop Out	Seal In	+		5 -	Ì	
As Found	Tap 1 29.88	Tap :	_	100% 0.48	NA NA	NA	NA	NA	NA	NA	14.16	0 1	14.21°	0.17	Hz
As Left	29.88	NA	_	0.48	NA	NA	NA	NA	NA	NA	14.16		14.21°	0.17	
		1								1					
As Found															
As Left															
Remarks															
IXEIIIAI NS															
Submitted	By Sta	an Macl	Milla	an					Eau	uipment U	sed M	anta M	TS 5000		
										-					



															Test#	R40	0	f L	
Customer	Sta	ate of	СТ							Date	• [6/29/2	2021	Job#	21-2	68		
Address	20	1 Wes	st Mai	n Stre	eet,	Niantic, (СТ						Temperature 20°C						
Owner/Use	r Yo	rk Co	rrectio	nal F	acili	ity							Date Last Inspection 5/6/201					2016	
Address	20	1 Wes	st Mai	n Stre	eet,	Niantic, (CT						Last Ins	pection	Job#	16-2	:00		
Equipment	Location	n	23 K	V Sw	itchl	board										F			
Circuit Ider	ntificatio	n	52-B	Т															\equiv
Relay Iden	tification	า	Phas	se Ov	ercı	ırrent				CT Rati	io [150:5	j		PT Ratio	NA	-		
Relay I	nforr	nati	on			- .	- 1		le 4				_						
Manufactui	_	ABB				Type F	Pnase ange Pha	100	51	i 5 - 6 amp				Ground Range G	round	51 S	2 an	ne	
Control Vol		125 V	/DC				ange rna Phase	150	_	erse				Ground		Shor		ips	
Use	itage		curren	ıt			ange Pha	se		(- 20 X				ange G			- 20 X		
Relay Type	,		State	-		i	t Book P			2.1.7-14				-	Ground	NA			
Setting	L	_																	
0011111191			~			aneous			, 1	Tap		<u> </u>		. ~	Time I			_	
Specified	ICS	<i>P</i>	۱Ø	BØ)	CØ	G	AØ)	BØ	С	Ø	G	AØ	BØ	+	CØ	<u> </u>	G
As Found	NA	20	0 X	20	X	20 X	2 X	6		6	6	3	0.6	7	7	-	7	+	0
As Left	NA	-	0 X	20		20 X	2 X	6		6	6		0.6	7	7	+	7	4	0
Visual	Insp	ecti	on																
Viouui	Visual Inspection AØ BØ CØ G AØ BØ CØ G									G	1			ΑØ	ВØ	СØ	G		
Cover Gas	ket	1 X	Х	Х	N/		oisture		٦t	ХХ	Х	NA	Dis	sc Clear	ance	NA	NA	NA	NA
Glass		Х	Х	Х	ΝA	A S	Spiral Spring NA NA NA NA				NA	Ru	ıst		Х	Х	Х	NA	
Foreign Ma	oreign Material X X X NA Bearing Condition NA NA NA NA																		
Routin	Routine Maintenance																		
AØ BØ CØ G											ΑØ	ВØ	CØ	G					
Glass Clea	ned	ned X X X NA Connections Tight X				ХХ	Х	NA	Ins	sulation	Resist.	NA	NA	NA	NA				
Case Clea	ned	Х	Х	Х	NA	A Ta	aps Tight			ХХ	Х	NA	Tri	p Circui	t	*	*	*	NA
Relay Clea	ined	Х	Χ	Х	NA	C	ontacts C	leaned	d	Х Х	Х	NA							
Remarks	The T	rip cir	cuit w	as no	t tes	sted at th	is time. P	hase (Cata	alog Num	ber-	443T	1241						
Ground Ca																			
The main b																rmed			
Phase time									ane	ous was	teste	at t	he 4 tap t	for pick	ıp.				
Ground Tir																			
Test O	perat	ion	s as			•				ds)									
ı	D: 1					Tests	Instant		_	D: 1	IC	_	0 11	ļ					
		ıp Te		P.U.		P.U. % 400%	Pickup	Dro _l Ou		Pickup	Dro O	op ut	Seal In						
A Phase	Tap 1 5.98	_	ap 2 NA	300 4.3		3.49	80.5	OK		NA	N		NA				+		\dashv
B Phase	5.98	_	NA NA	4.3		3.48	80.9	OK		NA	N		NA		-		+		\dashv
C Phase	5.97	_	۱A	4.3		3.48	80.4	OK	_	NA	N		NA				+		
Ground	0.60	_	۱A	0.8		0.68	1.21	OK	_	NA	N		NA				\top		\Box
Toot O	noroi	lion	2 2		·£ŧ	/Timo	in So.	000	40	1					-				
Test Operations as Left (Time in Seconds) Timing Tests Instantaneous ICS										$\overline{}$									
į	Pick	ір Те	sts	P.U.		P.U. %	Pickup	Dro	_	Pickup	Dro		Seal In	ł					
	Tap 1		ap 2	300		400%	i ionup	Ou		i iokup	O		ocai III						
A Phase	5.98	_	NA	4.3		3.49	80.5	OK		NA	N	Α	NA		-		+		\dashv
B Phase	5.98	١	۱A	4.3	3	3.48	80.9	OK	(NA	N	Α	NA		\neg		十		\neg
C Phase	5.97	١	۱A	4.3	2	3.48	80.4	OK	(NA	N	Α	NA				I		
Ground	0.60	N	NΑ	0.8	4	0.68	1.21	OK	(NA	N	Α	NA				$oldsymbol{ol}}}}}}}}}}}}}}}$		



			203.269.8778							Te	est#	R41	of	
Customer	Sta	te of CT					Date	e 🗀	6/29/2021 Job # 21-268					
Address	201	West M	ain Street,	Temperature 20°C										
Owner/Use	er Yor	k Correc	tional Facil		Date Last Inspection 5/6/2016					6/2016				
Address	201	West M	ain Street,		Last Ins	pection J	ob#	16-20)					
Equipment	Location	n 23	KV Switch	board										
Circuit Ider	ntification	n 52	-BT											
Relay Iden	tification	Gr	ound Over	Voltage			CT Rat	io NA		P.	T Ratio	200:	5	
Relay I	nforn	nation	1	_			_				_			_
Manufactu	_	ABB		Type	59G Range 3 - 18 volts				Catalog	Number	r 41	10E117	<u> </u>	
Control Vo	- H	125 VDC	;	Curve										
Use	· ·				Range NA									
Relay Type	e S	Solid Sta	te	Instruc	t Book	7.	4.1.7-9							
Settings														
Octing		Inst Setting	Tap Setting	Time Dial										
Specified	ICS	Octung	Gotting	Diai										
As Found	NA	NA	12 V	5										
As Left	NA	NA	12 V	5										
\ <i>\\</i> :1	I	4!												
Visual	inspe	ection												
Cover Gas	ket	Х		Foreign M	1aterial	Х		Spiral Sprir		NA		c Cleara	nce	NA
Glass		Х	L	Moisture		Х	В	Bearing Co	ondition	NA	Rus	st		Х
Routin	Routine Maintenance													
Glass Clea		Х	L	Relay Cle		Х	_	aps Tight		Χ		ılation F	Resist.	NA
Case Clea	ned	Х	<u> </u>	Connection	ons Tight	Х	C	Contacts C	leaned	Х	Trip	Circuit		*
Remarks	The Tr	ip circuit	was not tes	sted at thi	s time.									
Trip times:	200%-	5.8 seco	nds, 400%	- 4.2 sec	onds									
		-		_										
Test O	perat	ions (Time ii	1 Seco	onds)									
			Timing	Tests	Instant	aneous		ICS						
		p Tests	P.U. %	P.U. %	Pickup	Drop	Pickup		Seal In					
	Tap 1	Tap 2		400%		Out		Out						
As Found As Left	12.04 12.04	NA NA	6.49 6.49	4.82 4.82	NA NA	NA NA	NA NA	NA NA	NA NA					
7.0 20.0		1	55								ļ		ļ	
As Found														
As Left														
Remarks														
	1													
0	Submitted By Stan MacMillan Equipment Used Manta MTS 5000													



		269.8778	472			Test # VB1	of			
Customer Sta	ite of CT			Date	6/29/2021	Job # 21-2	68			
Address 20°	1 West Main	Street, Nian	tic, CT	Temp 29*0	C Humid	lity 69%				
Owner/User You	York Correctional Facility Date Last Inspection 5/3/2016									
	1 West Main		tic, CT		Last Inspection					
Equipment Locatio		0A 23kV Sv				,				
Breaker Identificati										
Breaker Info	ormantic	n								
Manufacturer W	estinghouse	Cat #	/ Type	70 VCP-W25 V	oltage 27kV Amps	s 1200 A	ge 93			
Serial Number 9	301006		Type of O	p Mech StoEngy	Int Rating 25k	A Other				
Test Result	S			,	,					
Insulation Resistar		B-G	C-G			Inspected	Cleaned/Lube			
5000 Volts	100k+	100k+	100k+		Overall Cleanliness	X	Х			
(in Megohms)	A-B	B-C	C-A		Insulating Members	Х	X			
	100k+	100k+	100k+		Mech Connections	Х	X			
	A-A	В-В	C-C		Structural members	Х	X			
	100k+	100k+	100k+		Cubicle	Х	X			
Contact Resistance		BØ	CØ	(in Micro-ohms)	Shutter Mechanism	Х	X			
As Found	39	22	37		Racking Device	Х	X			
As Left	3 9	22	37		Cubicle Wiring	Х	Х			
Over Potential Tes 45kV	- AØ - G	BØ - G Ok	CØ - G		Heaters	Х	Х			
	Ok	,			Panel Lights	Х	Х			
Bottle Integrity Tes 45kV	Ok AØL-L	BØ L - L Ok	CØ L - L		Pri Contact Fingers	Х	Х			
J45KV	,				Sec Contact Assembly	Х	Х			
Adjustments	Manufact. Recomend	As Four I.	nd As Lef	t	Main Contacts	Х	Х			
Erosion Indicator	>0.125	Ok	Ok		Breaker Wiring	Х	Х			
Main Contact Gap	Ind Vis	Ok	Ok		Mechanical Lube	Х	Х			
-					j					
]					
]					
]					
					l					
					J					
					Ground Connection	0	K			
					Contact Sequence	A - E	3 - C			
					Counter	300	389			
Remarks										
Style 8237A11G02	2									
Wiring Diagram 69	91C386H14									
VB Serial #'s AØ 9	212C57398	BØ 9212C6	1121 CØ 92	212C61101						
-										
Equipment Used	AC HiPot, D	uctor, Meg	ger	Equi	oment Serial # 100601	, 071206, 12100	01			
Submitted By	Jim Drury			Test	Crew JD					



		3.269.8778	1492			Test # VB2	of
Customer Sta	ate of CT			Date	6/29/2021	Job # 21-2	
Address 20	1 West Main	Street, Niar	ntic, CT		Temp 29*	C Humic	lity 69%
	rk Correctior				Date Last Ins	pection	5/5/2016
	1 West Main		ntic. CT		Last Inspectio		
Equipment Location		10A 23kV Sv					
Breaker Identificati		52-SDF1					
Breaker Info	,						
Manufacturer W	estinghouse	Cat #	/ Type	70 VCP-W25	/oltage 27kV Amp	s 1200 A	.ge 93
Serial Number 9	3010103		Type of Op	Mech StoEngy	Int Rating 25k	A Other	
Test Result	S			,	·		
Insulation Resistar	nce A-G	B-G	C-G			Inspected	Cleaned/Lube
5000 Volts	100k+	100k+	100k+		Overall Cleanliness	Х	Х
(in Megohms)	A-B	B-C	C-A		Insulating Members	Х	X
, ,	100k+	100k+	100k+		Mech Connections	Х	Х
	A-A	B-B	C-C		Structural members	Х	Х
	100k+	100k+	100k+		Cubicle	Х	X
Contact Resistance AØ		BØ	CØ	(in Micro-ohms)	Shutter Mechanism	Х	X
As Found	38	39	37		Racking Device	Х	X
As Left	38	39	37		Cubicle Wiring	X	X
Over Potential Tes	AØ - G	BØ - G	CØ - G		Heaters	X	X
45kV	Ok	Ok	Ok		Panel Lights	X	X
Bottle Integrity Tes	st AØL-L	BØ L - L	CØ L - L		Pri Contact Fingers	X	X
45kV	Ok	Ok	Ok		Sec Contact Assembly	X	X
Adjustments	Manufact		nd As Left	:	Main Contacts	X	X
	Recomen			\neg	Breaker Wiring	X	X
Erosion Indicator	>0.125	Ok	Ok		Mechanical Lube	X	X
Main Contact Gap	Ind Vis	Ok	Ok		Wechanical Lube	^	
					i		
					,		
					Ground Connection	0	
					Contact Sequence	A - E	
					Counter	001	114
Remarks							
Style 8237A11G02	2						
Wiring Diagram 69	91C386H14						
VB Serial #'s AØ 9	226004 BØ	9218037	CØ 9226010				
Equipment Used	AC HiPot, I	Ductor, Meg	ger	Equ	ipment Serial # 100601	, 131202 , 0909	02
Submitted By	Jim Drury			Test	Crew JD		



3 Buel Street, Wallingford, CT 06492 203.269.8778 VB3 Test # of State of CT Date 6/29/2021 Job# 21-268 201 West Main Street, Niantic, CT 29*C Temp Humidity York Correctional Facility **Date Last Inspection**

Customer 69% Address Owner/User 5/6/2016 Address 201 W Main St Niantic, CT Last Inspection Job # 16-200 **Equipment Location** Bldg 10A 23kV Switchboard BKR 52-SDF2 / Moved to 52-SDF3 Breaker Identification **Breaker Informantion** Westinghouse Manufacturer Cat # / Type 270 VCP-W25 Voltage 27kV Amps 1200 Age 93 93010102 Type of Op Mech StoEngy Int Rating 25kA Serial Number Other

Test Results				-			-
Insulation Resistance	e A-G	B-G	C-G			Inspected	Cleaned/Lube
5000 Volts	100k+	100k+	100k+		Overall Cleanliness	Х	Х
(in Megohms)	A-B	В-С	C-A		Insulating Members	Х	Х
	100k+	100k+	100k+		Mech Connections	Х	Х
	A-A	B-B	C-C		Structural members	Х	Х
	100k+	100k+	100k+		Cubicle	Х	X
Contact Resistance	AØ	BØ	CØ	(in Micro-ohms)	Shutter Mechanism	X	Х
As Found	39	39	39		Racking Device	X	Х
As Left	39	39	39		Cubicle Wiring	Х	Х
Over Potential Test	AØ - G	BØ - G	CØ - G		Heaters	X	Х
45kV	Ok	Ok	Ok		Panel Lights	X	X
Bottle Integrity Test	AØ L - L	BØ L - L	CØ L - L		Pri Contact Fingers	X	X
45kV	Ok	Ok	Ok		Sec Contact Assembly	X	X
	Manufact. Recomend	As Four	nd As Left		Main Contacts	X	X
Erosion Indicator	>0.125	Ok	Ok		Breaker Wiring	X	Х
Main Contact Gap	Ind Vis	Ok	Ok		Mechanical Lube	Х	Х
					j		
					j		
]		
					ļ		
1		J. L.			Ground Connection	(ЭK
					Contact Sequence		
					Counter	00	078
Remarks							
0. 1. 000=1.11000							·

Style 8237A11G02 Wiring Diagram 691C386H14 VB Serial #'s AØ 9226014 BØ 9218038 CØ 9226015

100601, 131202, 090902 **Equipment Used** AC HiPot, Ductor, Megger Equipment Serial # Submitted By Jim Drury **Test Crew** JD



Equipment Used

Submitted By

AC HiPot, Ductor, Megger

Jim Drury

Medium Voltage Vacuum Breaker

100601, 131202, 090902

JD

Equipment Serial #

Test Crew

3 Buel Street, Wallingford, CT 06492 203.269.8778 VB4 of Test # 6/29/2021 21-268 Customer State of CT Date Job# 201 West Main Street, Niantic, CT 29*C 69% Address Temp Humidity York Correctional Facility 5/6/2016 Owner/User **Date Last Inspection** Address 201 W Main St Niantic, CT Last Inspection Job # 16-200 **Equipment Location** Bldg 10A 23kV Switchboard BKR 52-SDF3 / Moved to 52-SDF2 Breaker Identification

Breaker Info	rmantio	n									
Manufacturer Wes	stinghouse	Cat #	/ Type	70 VCP-V	V25	Voltage	27kV	Amps	1200	Age	93
Serial Number 930	010105		Type of Op	p Mech	StoEngy	Int	Rating	25kA	Other		
Test Results											
Insulation Resistance	e A-G	B-G	C-G						Inspected	Cle	eaned/Lube
5000 Volts	100k+	100k+	100k+			Ov	erall Cleanlii	ness	Х		Х
(in Megohms)	A-B	B-C	C-A			Ins	ulating Mem	bers	Х		Х
	100k+	100k+	100k+			Ме	ch Connecti	ons [Х		Х
	A-A	B-B	C-C			Str	uctural mem	bers	Х		Х
	100k+	100k+	100k+			Cu	bicle		Х		Х
Contact Resistance As Found	AØ	ВØ 36	CØ	(in Micr	o-ohms)	Sh	utter Mecha	nism	Х		Х
	40	36	41			Ra	cking Device	, [Х		Х
As Left			-			Cu	bicle Wiring	Ĺ	Х	T	Х
Over Potential Test	AØ - G	BØ - G	CØ - G			He	aters	Ĺ	Х	ΤÍΤ	Х
45kV	Ok	Ok	Ok			Pa	nel Lights	ÍΓ	Х	Ī	Х
Bottle Integrity Test	AØ L - L	BØ L - L	CØ L - L			Pri	Contact Fin	gers	Х	ĬΠ	Х
45kV	Ok	Ok	Ok			Sec C	ontact Asse	mbly	X	Ϊ	Х
Adjustments	Manufact. Recomend	As Four	nd As Left	t		Ма	in Contacts	Ė	Х		X
Erosion Indicator	>0.125	Ok	Ok			Bre	eaker Wiring		Х		Х
Main Contact Gap	Ind Vis	Ok	Ok			Ме	chanical Lul	ре 🗀	Х		Х
·											
								Ī			
								Ī			
								Ĺ			
								ĺΓ		ī	
								Ĺ		T	
						Gro	ound Conne	ction		ok	
						Co	ntact Seque	nce "_			
						Co	unter	=	00	0125	
Remarks								_			
Style 8237A11G02											
-	Wiring Diagram 691C386H14										
VB Serial #'s AØ B	ø cø										



Customer State of CT Date 6/29/2021 Job # 21-268			.269.8778	492					Test #	VB5		of
Address	Customer Sta	te of CT			Date		6/29/20	_		_		
Date Last Inspection Si6/2016 Address 201 W Main St. Niantic, CT Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 16-200 Last Inspection Job # 1200 Age 93 Last Inspection Job # 1200 Age 1200 Age	Address 201	West Main	Street, Niar	itic, CT			Temp	29*C		,		69%
Address							,	_				_
Bidg 10A 23kV Switchboard 23kV Tie Breaker Breaker Informantion												
Breaker Informantion	,	,										
Serial Number				Thombour a							_	
Serial Number 93010104 Type of Op Mech StoEngy Int Rating 25kA Other		,										
Test Results Insulation Resistance A-G B-G C-G 100k+ 100	Manufacturer W	estinghouse	Cat #	/ Type	70 VCP-W25 V	oltage	27kV	Amps	1200		\ge	93
Name Name	Serial Number 9	3010104		Type of Op	Mech StoEngy	Int	Rating	25kA	. o	ther		
	Test Results	S			•		'					
A-B	Insulation Resistan	ice A-G	B-G	C-G					Inspect	ted	Clea	aned/Lube
100k+ 100k+ 100k+ 100k+ A-A B-B C-C Structural members X X X X X X X X X			100k+	100k+		Over	rall Cleanline	ess	X			X
A-A	(in Megohms)	A-B	B-C	C-A		Insul	lating Memb	ers	X	$\overline{}$		X
100k+ 100k+ 100k+ 100k+ Cubicle X		100k+	100k+	100k+		Mecl	h Connectio	ns 🗀	X	\equiv		X
Contact Resistance		A-A	В-В	C-C		Struc	ctural memb	ers	X	\equiv		X
As Found As Left As Left As Left As Left As Left As Left As Left As Left As Left As Left As As Left As Found As Left As Found As Fo		100k+	100k+	100k+		Cubi	cle	Ė	X			X
As Found					(in Micro-ohms)	Shut	ter Mechani	sm 🖺	X	=		X
As Left 48 44 38 Over Potential Test AØ - G BØ - G CØ - G 45kV Ok Ok Ok Ok Bottle Integrity Test AØ L - L BØ L - L CØ L - L 45kV Ok Ok Ok Ok Adjustments Manufact. Recomend. Erosion Indicator >0.125 Ok Ok Main Contact Gap Ind Vis Ok Ok Ground Connection OK Contact Sequence Counter 00180	As Found									_		
Over Potential Test	As Left	48	44	38			-	F		=		
45kV Ok Ok Ok Ok Ok Bottle Integrity Test AØ L - L BØ L - L CØ L - L Ok Ok Ok Ok Ok Ok Ok		AØ - G	BØ - G				ŭ	F		_	_	
Bottle Integrity Test AØL - L BØL - L CØL - L 45kV	45kV	Ok	Ok	Ok				Ë		_		
Adjustments Manufact. Recomend. Frosion Indicator >0.125 Ok Ok Ok Main Contact Gap Ind Vis Ok Ok Main Contact Gap Ind Vis Ok Ok Ground Connection Contact Sequence Counter 00180	Bottle Integrity Tes	t AØL-L	BØ L - L	CØ L - L			_	oro L		_	H	
Adjustments Manufact. Recomend. As Found As Left Recomend. Solution Indicator >0.125 Ok Ok Ok Main Contact Gap Ind Vis Ok Ok Ok Mechanical Lube X X X X X X X X X X X X X X X X X X X	45kV	Ok	Ok	Ok			_	- 1		_	H	
Erosion Indicator >0.125 Ok Ok Main Contact Gap Ind Vis Ok Ok Mechanical Lube X X Ground Connection Contact Sequence Counter 00180	Adjustments			nd As Left				IDIY L			<u> </u>	
Main Contact Gap Ind Vis Ok Ok Mechanical Lube X X Ground Connection OK Contact Sequence Counter 00180		Recomend						Ė				
Ground Connection OK Contact Sequence Counter 00180							_	, ¦			H	
Contact Sequence Counter 00180 Remarks	Main Contact Gap	Ind Vis	Ok	Ok		Meci	nanicai Lube				늗	^
Contact Sequence Counter 00180 Remarks											늗	
Contact Sequence Counter 00180 Remarks								L L		_	<u> </u>	
Contact Sequence Counter 00180 Remarks								L			L	
Contact Sequence Counter 00180 Remarks								L				
Contact Sequence Counter 00180 Remarks								L				
Contact Sequence Counter 00180 Remarks											<u></u>	
Counter 00180 Remarks						Grou	and Connect	ion		0	K	
Remarks						Cont	act Sequen	ce =				
						Cour	nter	_		001	180	
	Remarks											
Style 8237A11G02	Style 8237A11G02											
Wiring Diagram 691C386H14	Wiring Diagram 69	1C386H14										
VB Serial #'s AØ 9218041 BØ 9226001 CØ 9226005	VB Serial #'s AØ 9	218041 BØ	9226001 (Ø 9226005								
Equipment Used AC HiPot, Ductor, Megger Equipment Serial # 100601, 131202, 090902	Equipment Used	AC HiPot F	ouctor Mea	ner	Faui	pment S	erial # 100	0601	131202	0900	102	
	Submitted By										===	