1. EQUIPMENT CABINET TEST PROCEDURE

2. DEVICE NAMING COORDINATION

- 2.1. The System Integrator shall coordinate with the TMC/ROC to identify the device names for each device.
- 2.2. The System Integrator shall then send a request to TOTS to identify the network name, IP address, and any pertinent configuration information.

3. EXPLANATION – STANDALONE (SALT) TESTING

- 3.1. The System Integrator shall work with the DEVICE VENDOR (if required by the testing form) and complete the NDOT specified SALT tests (non-network) on each unit of equipment after installation.
- 3.2. Conduct SALT testing on each unit of equipment as outlined on the NDOT provided testing form.
- 3.3. The System Integrator shall coordinate through the Resident Engineer and the Construction Crew to have an appropriate NDOT representative present for the onsite inspection.
- 3.4. The System Integrator shall submit the DEVICE vendor commissioning documents, if applicable, with the SALT testing to the Engineer for review and approval.
- 3.5. Supply a bucket truck and operator, or suitable equivalent equipment necessary to carry out procedures as required by the testing documents, at no direct payment.

EQUIPMENT CABINET (EQUIP CABINET) SALT PROCEDURE

TEST #	SALT TEST PROCEDURE			EXPECTED RESULT			PASS / FAIL
Equip Cabinet Name:		IP A	ddress:	N/A	GPS:		
TOTS Network Name: N/A Ass				ociated Ca	abinet Name:	; ;	
Purpose at	nd General Veri	ification					
System Int	egrator: This S	ALT tests the proper installat	tion of	f a functio	nal Equip Cal	binet.	
appropriat		r each test below, complete th licate a "Pass" on this form i l.					
Equipmen	t Information						
1.	Verify Equip Cabinet Information using the		e	Manufacturer:			
	manufacturer label.			Model: Serial Number: Firmware Version: N/A			Pass / Fail
							-
2.	Verify Equip Cabinet material.			Circle one:			
				Aluminum Steel			
				Ар	proved Metal		
3.	Manufacturer's commissioning of Equip Cabinet equipment.			Manufacturer confirmation of full operation of all Equip Cabinet associated equipment.			Pass / Fail
Equipmen	t Verification						
4.	Verify Equip Cabinet meets internal and external dimensions and features as specified in the Special Detail.			Equip Cabinet meets specified internal and external dimensions and features as specified in the Special Detail.			d Pass / Fail
5.	Verify all external labeling is accurate and conforms to the current NDOT Std. Plan.External labels conform to the current NDOT Std. Plan.			Pass / Fail			
6.	Verify all cabling is labeled with the to/from on each end and at any major transition point and is neatly managed throughout the cabinet.			All premise or inside plant cables originating and ending in the cabinet are properly terminated and labeled.			
			Labeling material rated for Outside Plant (OSP) use.			Pass / Fail	
				Cables are neatly managed using adjustable hook-and-loop fastener straps.			
7.	Using a meter, bonded to eart	h ground. Meter reading of 5 Ohms or less.			Pass / Fail		

TEST #	SALT TEST PROCEDURE	EXPECTED RESULT	PASS / FAIL	
8.	Verify exothermic weld bonds are properly welded.	Exothermic weld bonds are verified for proper adhesion.	Pass / Fail	
9.	Verify the installation of bolts in the required and expected locations.	Bolts are installed in the proper locations.	Pass / Fail	
10.	Verify all bolts are torqued to manufacturer's recommendations.			
11.	Verify the cabinet interior and exterior are painted or powder coated white in conformance with the Special Provisions. The cabinet interior and exterior are painted or powder coated white in conformance with the Special Provisions.		Pass / Fail	
12.	Verify the cabinet interior and exterior are in good condition with no visible damage.	The cabinet interior and exterior are free of dents, scratches, or other defects.	Pass / Fail	
13.	Verify the cabinet is firmly anchored or mounted in position.	Cabinet is firmly anchored to the foundation or mounted to the standard.	Pass / Fail	
14.	Verify the door vents have louvre vent covers.	Louvre vent covers are present.	Pass / Fail	
15.	If applicable, verify the agency-approved lock conforms to the requirements of the agency responsible for this specific cabinet.	The agency-approved lock conforms to the responsible agency's requirements.	Pass / Fail / N/A	
16.	If applicable, verify the agency-approved lock operates properly.	Agency-approved lock unlocks and locks as expected.	Pass / Fail / N/A	
17.	Verify both the front and rear cabinet door lock teeth oriented upward.	Both the front and rear cabinet lock teeth are oriented upward.	Pass / Fail	
18.	Verify the front cabinet door lock operates properly.	Front cabinet door lock unlocks and locks as expected.	Pass / Fail	
19.	Verify the condition and proper operation of the front cabinet door.			
20.	Verify the condition and proper operation of the front top and bottom doorstop arms.	The front top and bottom doorstop arms is free of dents, scratches, or other defects. The front top and bottom doorstop arms keep the door open securely in place.	Pass / Fail	
21.	Verify the rear cabinet door lock operates properly.	Rear cabinet door lock unlocks and locks as expected.	Pass / Fail	

TEST #	SALT TEST PROCEDURE	EXPECTED RESULT	PASS / FAIL	
22.	Verify the condition and proper operation of the rear cabinet door.	The rear cabinet door is free of dents, scratches, or other defects. The rear cabinet door opens freely.	Pass / Fail	
23.	Verify the condition and proper operation of the rear top and bottom doorstop arms.	The rear top and bottom doorstop arms is free of dents, scratches, or other defects. The rear top and bottom doorstop arms keep the door open securely in place.	Pass / Fail	
24.	Verify the interior cabinet light and fan are intact and securely mounted in the cabinet.	The interior cabinet light and fan are securely mounted.	Pass / Fail	
25.	Verify the interior cabinet light and fan are in good condition with no visible damage.	The interior cabinet light and fan are free of dents, scratches, or other defects.	Pass / Fail	
26.	Perform Megger test on cabinet ground per Megger tester directions using three-terminal- fall-of-potential method.	The Megger test value provides resistance to ground of 5 Ohms or less.	Pass / Fail	
27.	Verify the presence of separate and isolated ground bus bars for equipment grounding and power conductor grounding.	The commercial AC ground is tied back to the service pedestal. The equipment ground is tied locally to the ground rod or local grounding method.	Pass / Fail	
28.	Verify the Equip Cabinet is free from 60Hz noise using an oscilloscope.	The Equip Cabinet produces a non- distorted AC sine wave between the power conductor (load 1 and/or load 2) and neutral bus bar, neutral bus bar and ground bus bar, and power conductor (load 1 and/or load 2) and ground bus bar.	Pass / Fail	
29.	Verify the fans turn on and off.	The fans turn on and off.	Pass / Fail	
30.	Verify the fans turn on when temperature exceeds 65°F.	The fans turn on when the temperature exceeds 65°F.	Pass / Fail	
31.	Verify the fans turn off when temperature falls below 65F°F.	The fans turn off when the temperature exceeds 65°F.	Pass / Fail	
32.	For each door, verify the cabinet LED lights turn on/off when the door actuator push button switch is activated/deactivated.	The cabinet LED lights turn on/off when the door actuator push button switch is activated/deactivated.	Pass / Fail	

TEST #	SALT T	SALT TEST PROCEDURE		EXPECTED RESU	PASS / FAIL			
33.		Verify the presence of a replaceable pleated paper filter behind the door vents.		eable pleated paper fi behind the door vents	Pass / Fail			
Signatures								
DATE	AGENCY/FIRM	PERFORMED BY (Print Name) (Integrator)	INTL	AGENCY/FIRM	WITNESSE (Print Name)		INTL	
Integrat	or Signature							
NDOT RE Signature								
NDOT TOTS Signature								