

RI - Reference Information

<u>Assembly #:</u> CD12030000 Assembly Description: Sensor, Wet Deposition Collector, TES

PREPARED BY:	ORGANIZATION:	DATE:
Ken Franzel	Production	11/15/2016

APPROVALS (Name):	ORGANIZATION:	APPROVAL DATE:
Laura Leyba-Newton	ENG	12/07/2016
Angelo Reyes	PROD	11/30/2016
Maurizio Miccolis	I&V	12/05/2016

RELEASED BY (Name):	ORGANIZATION:	RELEASE DATE:
Anne Balsley	СМ	12/07/2016

DOCUMENT	DATE	Changed By	ECO #	DESCRIPTION OF
REVISION		(Name)		CHANGE
Α	12/07/2016	Ken Franzel	ECO-04319	Initial Release

- Work Content	Che	ck	A - y	Verify
TED	Page	1	of	11





Prior to assembly check the following:

- Check that all tools (floor stock), consumables (floor stock/VMI) and documentation (procedure lookup tool/Agile by request) listed below are available and accounted for.
- Check that any special requirements are possible to accommodate. See the author of this document (subject matter expert) for further explanation of Special REQ's if need be.
- Check that all required quantities are correct via provided DBA work order.

REQUIRED / SUGGESTED TOOLS:

- 3/8" Nutdriver
- 1/8" flat blade screwdriver

REQUIRED CONSUMABLES:

- Mini-Black Cable Tie 0310010000 (x1), (floor stock, VMI)
- 5/16" cable clamp 0309080004 (1x), (floor stock, VMI)

REQUIRED DOCUMENTATION:

NEON.DOC.000326 Sensor Test Procedure

SPECIAL REQUIREMENTS:

• None



Document #: NEON.DOC.003968

Assembly #:

CD12030000

STEP 1: Unpack Sampler & Install on Test Cart

- 0335070000 (x1), Sensor, Wet Deposition Sampler, NEON Custom.
- Remove sampler from packaging. Mark the foam-in-place pads so sampler can be repacked.
- Place sampler on one of the mounting posts of the test cart. Make sure it slides down onto the pipe.
- o Remove protective plastic shrink wrap.









- Reference Information

Assembly #: CD12030000

Sensor, Wet Deposition Collector, TESTED

Assembly Description:

STEP 3: Install Rain Detector

- Unpack rain detector (save packaging materials for repacking)
- Remove wing nuts from mount location on left side of sampler. 0
- Plug the sensor wiring into the mating plug on the sampler. Tuck the wiring into the sampler and mount the detector. 0
- 0
- Finger tighten the wingnuts.



1. Remove wingnuts



2. Plug in detector



3. Mount detector





Document #: NEON.DOC.003968

Assembly #:

CD12030000

Revision: RI

Α

- Reference Information

Assembly Description:

Sensor, Wet Deposition Collector, TES

STEP 4: Install Chiller

- 0345760001 (x1), Sensor Accessory, Thermoelectric Chiller.
- Unpack the chiller assembly (save packaging materials for repacking).
- o Remove mounting nuts from right side of sampler
- Carefully thread chiller power cord through hole in foam insulation. 0
- Mount chiller to right side of sampler. Finger tight on nuts is sufficient. 0
- Plug chiller power cord into jack (below fan). 0
- Set thermostat to approximately 77 degrees F. 0



1. cord through foam



3. connect cord



2. mounted chiller



4. Set to 77 degrees.

STEP 5: Verify PRT •

- AB03960000 (x1), Assembly, Cable, PRT Submersible, 6 Feet, NADP.
 Using the 1-Wire Quick-View application (at the sensor test fixture), verify that the PRT 1-wire data is
- Note: Asset tag number is on the metal barcode tag strapped to the cable. Maximo ID is a barcode label 0 wrapped around the cable. Serial number is etched into the metal housing of the PRT.



- Work Content	- Che	ck	_ - v	Verify
TED	Page	6	of	11

programmed correctly. Part number must be AB03960000, and the asset, maximoID, and Serial number must match the unit. If not, reprogram at sensor test station per NEON.DOC.000326.

Window Help
<u></u>
PROM Data
lame
PRT4W
n
AB03960000
erialAsset
12345678901234
naximoId
54321
nfgSerial
123-546
lateCal
2010-10-25T11:
lateDue
2011-10-25T11:



Document #: NEON.DOC.003968

Assembly #:

CD12030000

Revision:

STEP 6: Feed PRT through Cable Gland

- Remove nut and plastic insert from cable gland.
- Slide nut and plastic insert over the PRT and down onto the cable. 0
- Thread the PRT up through the cable gland into the sampler cabinet.
- o Loosely attach the nut with plastic insert.



1. Remove nut & insert



2. Slide nut and insert over PRT



- 0
- 0
- 0





3. Slide PRT up into sampler cabinet



3. Closeup of clamp, tie





Document #: NEON.DOC.003968

Assembly #:

CD12030000

STEP 10: Check Functionality

- With system powered up, wave hand or soft object through the opening in the precipitation detector (to simulate rain). Stop once actuator arms move.
- o Actuator arms should slowly move the lid off the sampler openings on top.
- The cover should return to rest on the sampler openings. If the cover isn't sitting flat on both openings, contact 0 an engineer or technician for adjustment of arms.
- o Remove 240VAC power and disconnect AC power cables from sampler and chiller.



1. Simulate rain



2. Arms move cover off openings





3. Cover returning to openings



4. Cover seated properly on openings



Document #: NEON.DOC.003968

<u>Assembly #:</u> CD12030000 A RI

- Reference Information

on

Assembly Description: Sensor, Wet Deposition Collector, TES

STEP 12: Verification

- Verify both thermostats set properly.
- Verify lid is resting flat on top of sampler intake openings.



- Remove precipitation detector from sampler
- Repackage sampler in original materials.
- Label sampler box with assembly number, re
- Label chiller box with assembly number, revision, and box 2/2.



Set to 37 degrees



Set to 77 degrees.



Cover seated properly on openings

- Work Content	- Che	eck	- \	Verify
TED	Page	10	of	11
, chiller, and sampler. a in original materials. and repackage in original materia	als.			
evision, and box 1/2.				



