

**ADDENDUM NO. 1
TO THE PLANS, SPECIFICATIONS, PROPOSAL AND CONTRACT FOR
SILVER LAKE WATER AND SEWER DISTRICT**

**Reservoir No. 4 Roof Recoating
Project No.: 24-0001**

ISSUED THIS DATE: Thursday, March 28, 2024
BID OPENING DATE: Wednesday, April 10, 2024, at 11:00AM (*revised*)
Bids due by 10:00AM (*unchanged*)

Addendum No. 1 shall be incorporated into the Contract Documents.

Bidders shall acknowledge receipt of this Addendum No. 1 on the Bid Signature Page of the Bid Proposal. Failure to so acknowledge may result in the Bid being rejected as not responsive.

The following changes are hereby incorporated into the Contract Documents for this project:



BID OPENING DATE:

The bid opening date is postponed by one week.

REVISED BID OPENING DATE: Wednesday, April 10, 2024, at 11:00AM
Bids due by 10:00AM (*unchanged*)

APPENDICIES

The attached coating inspection report from QCIC dated 10/12/2022 is incorporated into the bidding document as Appendix B. The report is provided solely for bidder reference and is not intended to provide specifications or directions to the bidders.

PRE-BID MEETING QUESTIONS

Following are responses to questions and issues that were raised during the pre-bid site meeting held on site at 9:00AM on 3/21/2024. Revised technical specifications with more extensive information will be provided in a future addendum.

- **Pressure washing water collection / disposal** – All wash water shall be routed to the existing storm water system through the reservoir downspouts and/or catch basins at ground level. All runoff water on site is routed to the stormwater detention vault as shown on the Site Exhibit in the Appendix. The District will plug the outflow pipe of the detention vault, then collect and dispose of the collected water with a vactor truck at District expense.
- **Compatibility with Stainless-Steel** – The Design Engineer has verified that the specified coating system is compatible with the existing stainless-steel components with proper surface preparation specified in this addendum.
- **Security** – The contractor should be aware that ongoing security issues and theft have occurred on site despite fencing and security cameras. Secure storage of contractor's equipment and materials is the responsibility of the contractor.
- **Water Source** – Silver Lake will provide a water source at the District's expense via a hydrant meter with a backflow assembly on the fire hydrant adjacent to the reservoir.
- **Existing coating removal** – Not all existing top coating is required to be removed on the roof during cleaning. If the top paint layer is solidly bonded and does not interfere with manufacturer's preparation or application requirements, it can remain.

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- **Gutter cleaning** – *The existing gutters along the perimeter of the reservoir shall be cleaned after the roof pressure washing, but not painted.*
- **Hoist** – *There is an existing hoist post / davit arm at the top of the access stairs, 5' tall with a 1.5' long arm, that can be utilized by the contractor for hauling construction materials and equipment vertically. The contractor is responsible to provide their own mechanical lifting device.*
- **Inspection** – *The District will, at its expense, retain the services of a NACE certified coating system inspector to monitor all aspects of the surface preparation and application of the coatings.*



Quality Coatings Inspection and Consulting
 721 Brickyard Blvd.
 Sedro Woolley, Washington 98284
 Office: (360) 990-2499
 Email: sonny@qcic2.com

DAILY INSPECTION REPORT

Date:	Wednesday 10-12-2022	Client:	Silver Lake Water District	Contractor:	NA
Project:	Roof Inspection	Phase:	Inspection	Inspector:	Michael Murphy

CONTRACTOR CONTACTS

Superintendent	Project Manager
NA	NA

Onsite QC **Site Foreman's**
Michael Murphy **Ron Berger**

Abrasive	NA	Size	NA	Surface Prep. Req.	NA	Profile Req.	NA
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COATING INFORMATION

Manufacturer:	NA	Manufacturer:	NA
Coating Material:	NA	Coating Material:	NA
Expiration:	NA	Expiration:	NA
Color:	NA	Color:	NA
Batch Number Part A:	NA	Batch Number Part A:	NA
Batch Number Part B:	NA	Batch Number Part B:	NA
Batch Number Part C:	NA	Batch Number Part C:	NA
Thinner Used:	NA	Thinner Used:	NA
Thinner Batch Number:	NA	Thinner Batch Number:	NA
Additive:	NA	Additive:	NA
Batch Number:	NA	Batch Number:	NA

Induction Time? (Yes or No)	NA	Induction Time Length	NA	Pot Life	NA
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Coating Material	NA	Recoat Time @	NA	Minimum Recoat	NA	Maximum Recoat	NA
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Coating Material	NA	Allowed Surface Temp. Minimum	NA	Maximum	NA
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WEATHER CONDITIONS ON ARRIVAL

Cloudy with a Temperature of 67°, Wind is 2 mph N, Relative Humidity is 62% and the Dewpoint is 54°

*For detailed environmental conditions see downloaded report below

Inspection Tool	Used Y/N	Serial Number	Inspection Tool	Used Y/N	Serial Number
Positector 6000	Y	817077	Certified Plastic Shims	Y	1013746
Positector IRT	N	335677	Positector AT-A	N	17735
Dew Point Meter Probe	N	298040	TQC LPM	N	LD8105-135
Positector 6000	Y	832925	HHD	N	
Surface Profile Probe	Y	277755	Testex Tape	N	
Positector 6000	Y	866643	Micrometer	N	
DFT 60 Mils Probe	Y	170155	Magnetic Thermometer	N	
DPML	N	389639	Sling Psychrometer	N	

TIME:	ACTIVITIES:
09:40 AM	I have arrived at 2220 132 nd Street SE Mill Creek WA. To meet with QCIC owner Sonny Mauricio and Silver Lake Water District Ron Berger to Inspect the Roof of Reservoir NO.4
09:50 AM	I have checked my Positector 6000 and installed fresh batteries and will be taking Random Dry Film Thickness Measurements on the Roof around areas that have failed topcoat.
09:55 AM	QCIC Owner Sonny Mauricio and I along with Silver Lake Water district Ron Berger and two other Silver Lake Water District personnel are on the Tank Roof. I am starting my Inspection.
10:55 AM	<p>I have completed my Inspection on the roof and my observations are the Following:</p> <ul style="list-style-type: none"> ➤ There are areas throughout the roof where the topcoat has delaminated from the mid coat ➤ The largest areas of delamination are near the roof access/staircase and North side of the tank near the cell towers ➤ The underlying coats (Primer and Intermediate) are still intact and providing protection to the substrate ➤ There is one spot, at the top of the staircase, near the roof hatch where some spot rusting is occurring. The topcoat in this area has delaminated, exposing the epoxy mid coat. It appears that the epoxy mid coat was rolled on, and in this area not enough epoxy was applied creating holidays in the coating. The holidays exposed the substrate/zinc primer resulting in pinpoint rusting. The zinc primer is providing protection by slowing down the rate of corrosion. ➤ There is black matter where the topcoat is delaminating. Whatever this substance is, it appears is the cause of the topcoat failure. It appears to have no affect on the underlying coating.
11:00 AM	<p>I am now leaving site.</p> <p>Summation (Sonny Mauricio)</p> <p>As stated in the above information provided by Mike Murphy, I agree with the assessment. The substance on the roof, most likely bird droppings, is attacking the topcoat causing it to delaminate from the underlying coat. There are several options I see moving forward which are as follows:</p> <p>Option #1 – Do nothing and reassess the roof coatings in 5 years</p> <p>Option #2 – I believe the topcoat is Tnemec Series 73. It would be easy to pressure wash to remove contaminants and loose coatings, make any spot repairs as needed with an epoxy, then overcoat with Series 73.</p> <p>Option #3 – I spoke with Tnemec about another option. Rick Gilbreath mentioned that their Series 290 would be a good option to repair the roof if the district were to go with this option. Series 290 is chemical, immersion resistant if there is any ponding on the roof. Tnemec can provide a procedure, however, it would look something the following:</p> <ul style="list-style-type: none"> • Pressure wash to remove contaminants and loose coatings • Sanding of the remaining coatings • Applying a thin coat of the 290 <p>If there are any questions of the options laid out please don't hesitate to call or email.</p>

Onsite Inspector



Mike Murphy
Senior Coatings Inspector w/bridge & marine #6758
Quality Coatings Inspection and Consulting, Inc.

Technical Quality Manager



David Shoup
Senior Coatings Inspector w/bridge #68802
Quality Coatings Inspection and Consulting, Inc.



PHOTO 1 Example of Topcoat delamination



PHOTO 2 small areas of delamination



PHOTO 3 Delamination of Topcoat



PHOTO 4 areas prior to scapping



PHOTO 5 scapping off Topcoat



PHOTO 6 Dry Film Thickness Measurement



PHOTO 7 Cell Towers where Birds have Nesting



PHOTO 8 View of Random spots of Delaminations of Topcoat



PHOTO 9 Closeup of area

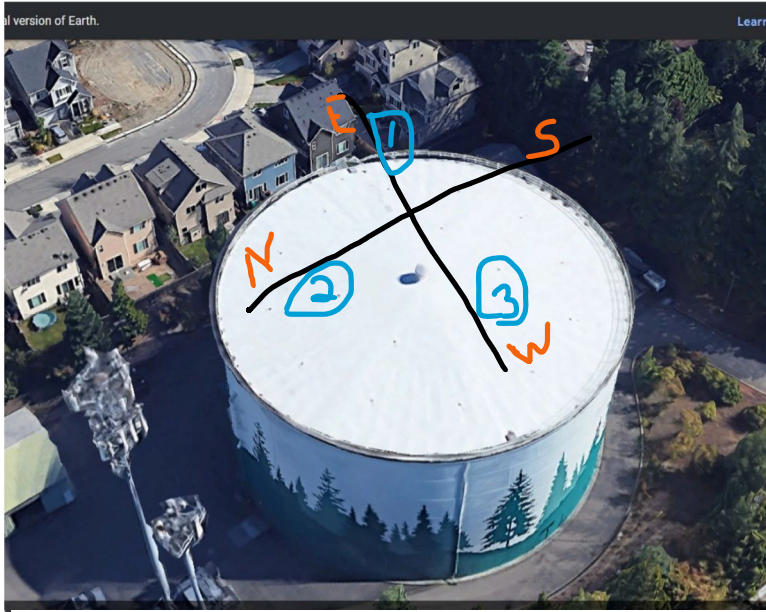
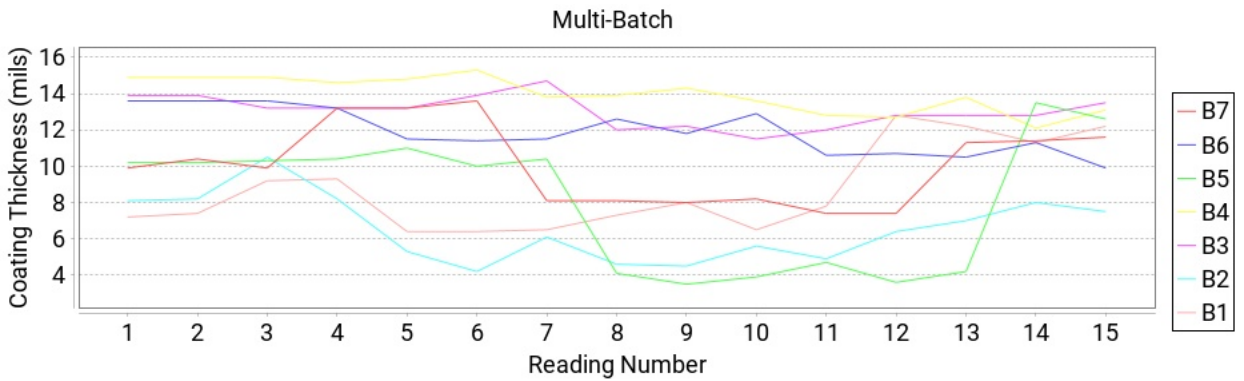
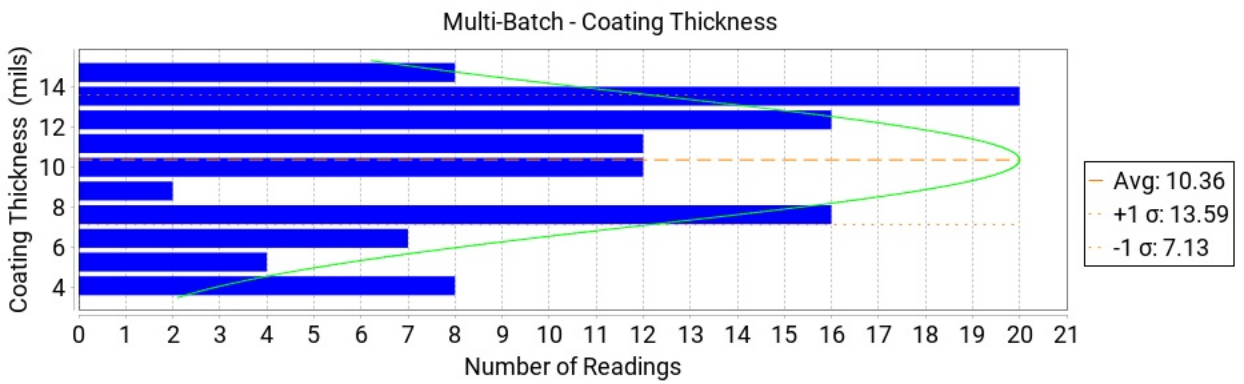
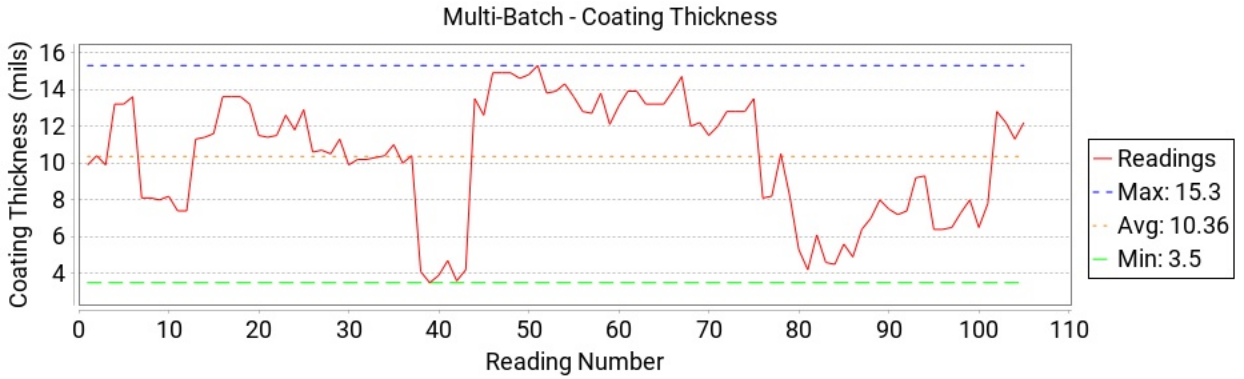


PHOTO 10 View of Roof Top Areas of largest delamination of Topcoat

Multi-Batch Summary

	#	\bar{x}	σ	↓	↑
Coating Thickness (mils)	105	10.36	3.23	3.5	15.3



B7

Created: 2022-10-12 10:25:25
PosiTector Body S/N: 866643
Probe Type: PosiTector 6000 FNS
Probe S/N: 170155

Calibration

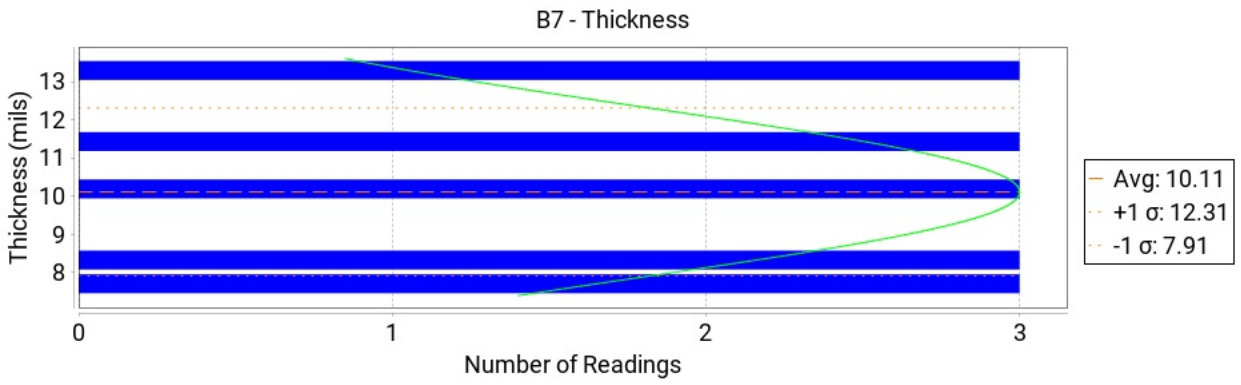
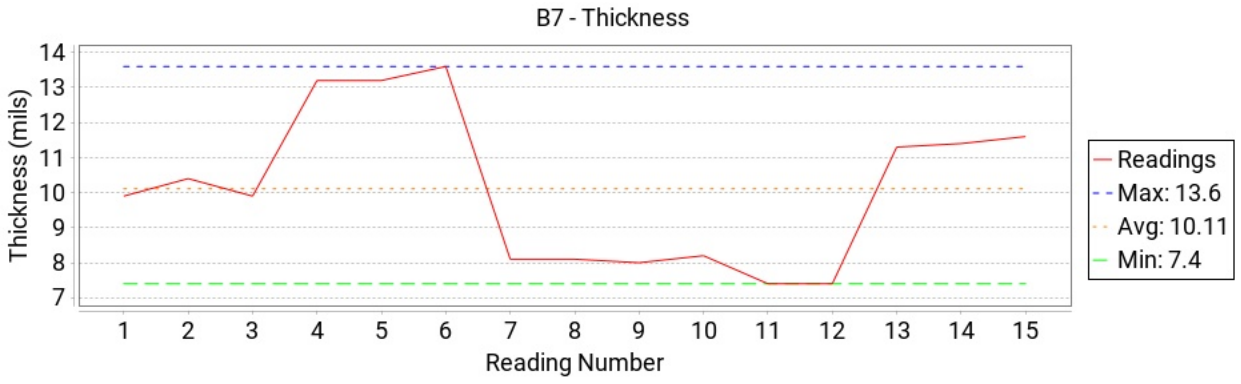
Cal Name: Cal 1
Adjustment Date: 2022-08-17 11:40:47
Adjustment Method: N Factory Zero

Summary

	#	\bar{x}	σ	↓	↑
Coating Thickness (mils)	15	10.11	2.20	7.4	13.6

Readings

#	Thickness (mils)	Time
		2022-10-12
1	9.9	10:25:28
2	10.4	10:25:28
3	9.9	10:25:29
4	13.2	10:25:47
5	13.2	10:25:48
6	13.6	10:25:48
7	8.1	10:25:50
8	8.1	10:25:51
9	8.0	10:25:51
10	8.2	10:25:52
11	7.4	10:26:18
12	7.4	10:26:18
13	11.3	10:26:46
14	11.4	10:26:46
15	11.6	10:26:47



B6

Created: 2022-10-12 10:24:46
PosiTector Body S/N: 866643
Probe Type: PosiTector 6000 FNS
Probe S/N: 170155

Calibration

Cal Name: Cal 1
Adjustment Date: 2022-08-17 11:40:47
Adjustment Method: N Factory Zero

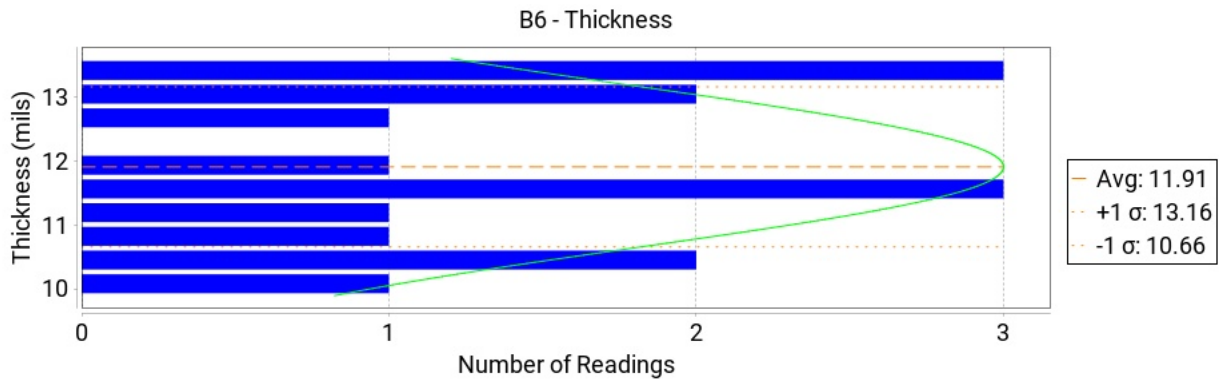
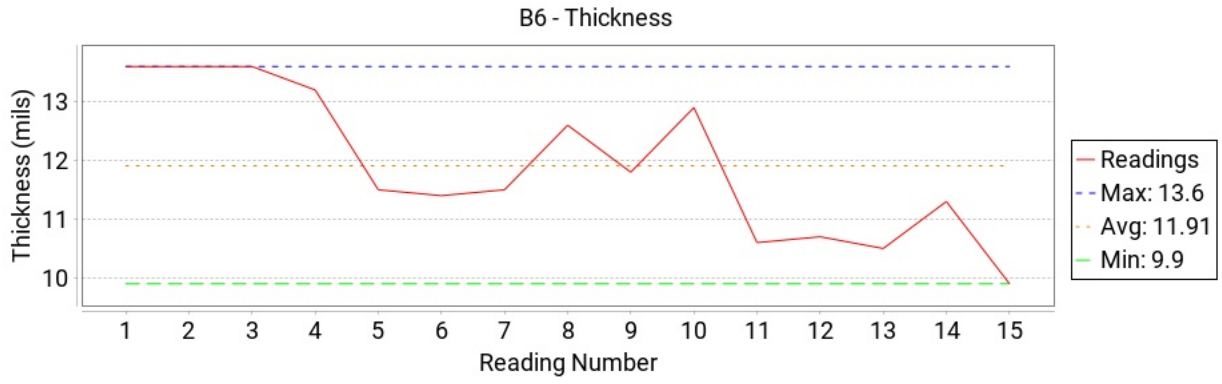
Example of DFTS in Topcoat area

Summary

	#	\bar{x}	σ	↓	↑
Coating Thickness (mils)	15	11.91	1.25	9.9	13.6

Readings

#	Thickness (mils)	Time
		2022-10-12
1	13.6	10:24:58
2	13.6	10:24:58
3	13.6	10:24:58
4	13.2	10:24:59
5	11.5	10:25:01
6	11.4	10:25:01
7	11.5	10:25:02
8	12.6	10:25:05
9	11.8	10:25:06
10	12.9	10:25:06
11	10.6	10:25:10
12	10.7	10:25:10
13	10.5	10:25:11
14	11.3	10:25:11
15	9.9	10:25:23



B5

Created: 2022-10-12 10:22:50
PosiTector Body S/N: 866643
Probe Type: PosiTector 6000 FNS
Probe S/N: 170155

Calibration

Cal Name: Cal 1
Adjustment Date: 2022-08-17 11:40:47
Adjustment Method: N Factory Zero

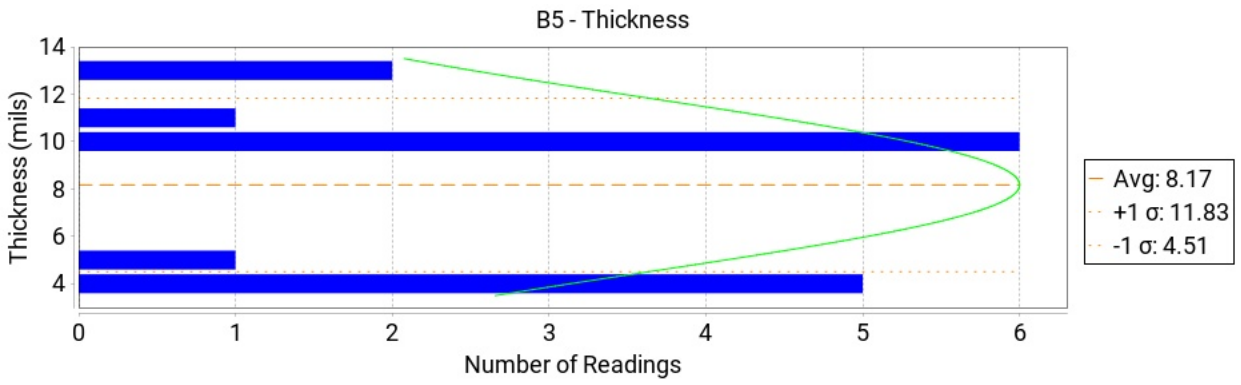
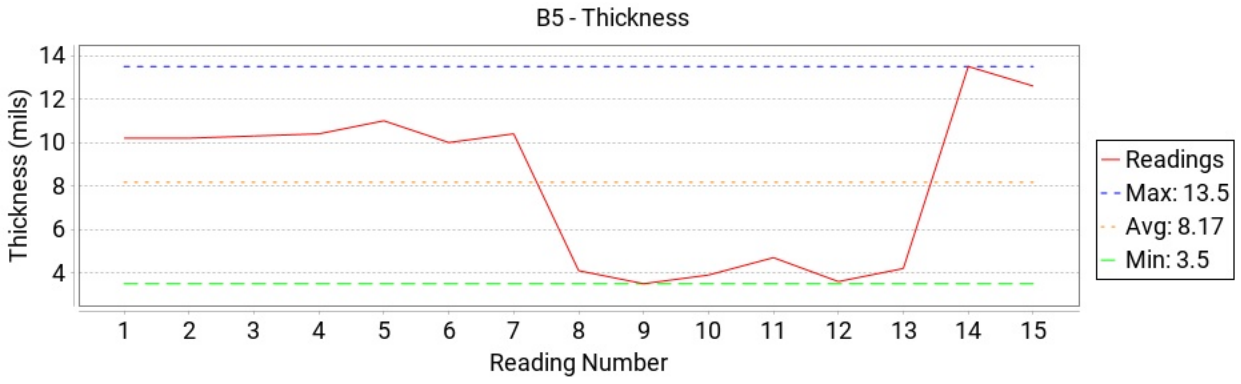
Example of DFTS in Failed area

Summary

	#	\bar{x}	σ	↓	↑
Coating Thickness (mils)	15	8.17	3.66	3.5	13.5

Readings

#	Thickness (mils)	Time
		2022-10-12
1	10.2	10:22:55
2	10.2	10:22:56
3	10.3	10:22:56
4	10.4	10:22:57
5	11.0	10:23:00
6	10.0	10:23:01
7	10.4	10:23:01
8	4.1	10:23:05
9	3.5	10:23:05
10	3.9	10:23:05
11	4.7	10:23:09
12	3.6	10:23:09
13	4.2	10:23:10
14	13.5	10:23:18
15	12.6	10:23:18



B4

Created: 2022-10-12 10:19:30
PosiTector Body S/N: 866643
Probe Type: PosiTector 6000 FNS
Probe S/N: 170155

Calibration

Cal Name: Cal 1
Adjustment Date: 2022-08-17 11:40:47
Adjustment Method: N Factory Zero

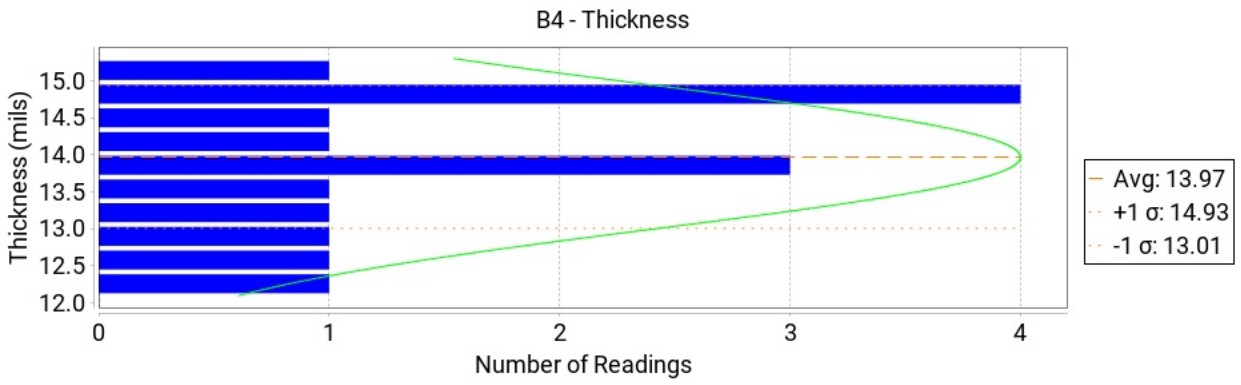
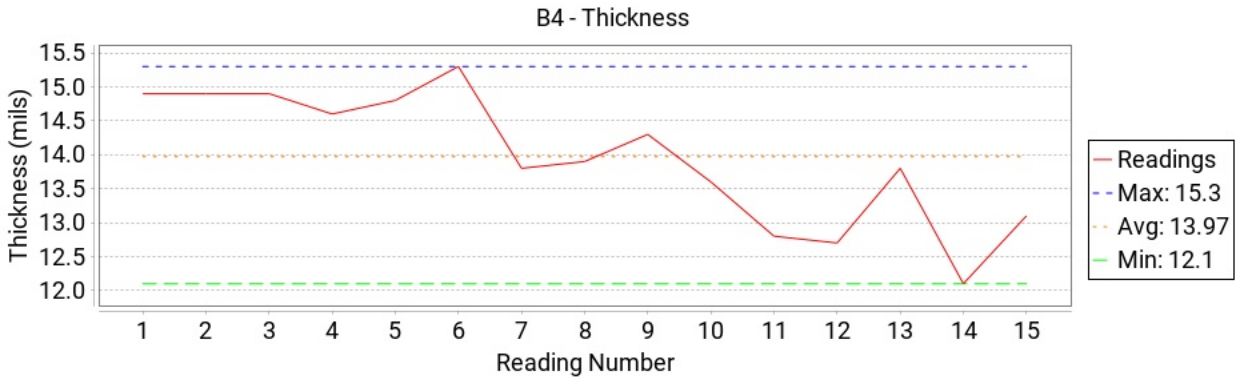
Example of DFTS in Sound Top Coat area

Summary

	#	\bar{x}	σ	↓	↑
Coating Thickness (mils)	15	13.97	0.96	12.1	15.3

Readings

#	Thickness (mils)	Time
		2022-10-12
1	14.9	10:22:32
2	14.9	10:22:33
3	14.9	10:22:33
4	14.6	10:22:34
5	14.8	10:22:34
6	15.3	10:22:36
7	13.8	10:22:37
8	13.9	10:22:37
9	14.3	10:22:38
10	13.6	10:22:40
11	12.8	10:22:41
12	12.7	10:22:41
13	13.8	10:22:41
14	12.1	10:22:44
15	13.1	10:22:45



B3

Created: 2022-10-12 10:11:32
PosiTector Body S/N: 866643
Probe Type: PosiTector 6000 FNS
Probe S/N: 170155

Calibration

Cal Name: Cal 1
Adjustment Date: 2022-08-17 11:40:47
Adjustment Method: N Factory Zero

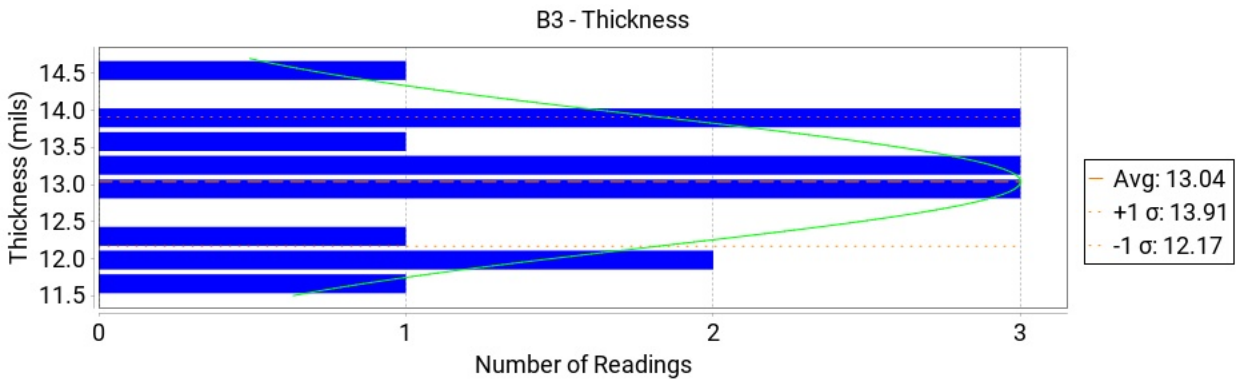
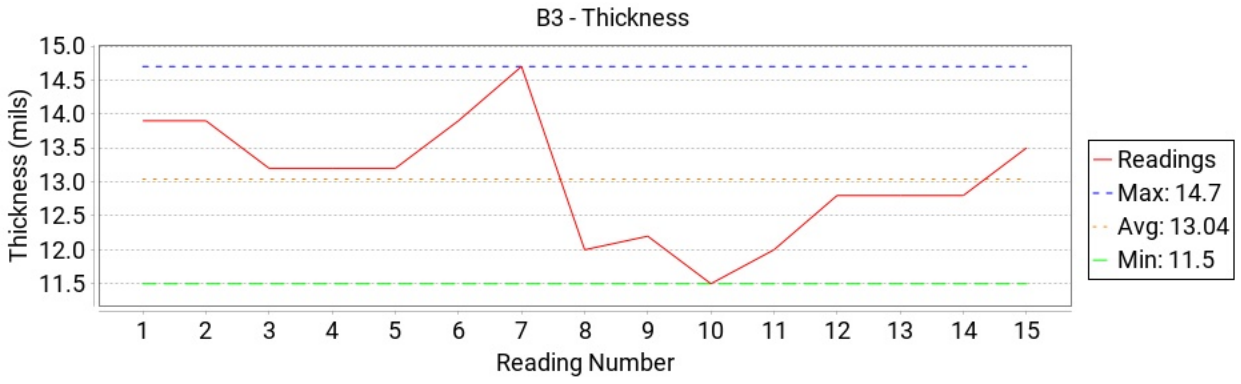
Example of DFTS in Sound Top Coat area

Summary

	#	\bar{x}	σ	↓	↑
Coating Thickness (mils)	15	13.04	0.87	11.5	14.7

Readings

#	Thickness (mils)	Time
		2022-10-12
1	13.9	10:18:07
2	13.9	10:18:08
3	13.2	10:18:10
4	13.2	10:18:11
5	13.2	10:18:11
6	13.9	10:18:19
7	14.7	10:18:20
8	12.0	10:18:20
9	12.2	10:18:20
10	11.5	10:19:09
11	12.0	10:19:10
12	12.8	10:19:13
13	12.8	10:19:14
14	12.8	10:19:14
15	13.5	10:19:15



B2

Created: 2022-10-12 10:10:05
PosiTector Body S/N: 866643
Probe Type: PosiTector 6000 FNS
Probe S/N: 170155

Calibration

Cal Name: Cal 1
Adjustment Date: 2022-08-17 11:40:47
Adjustment Method: N Factory Zero

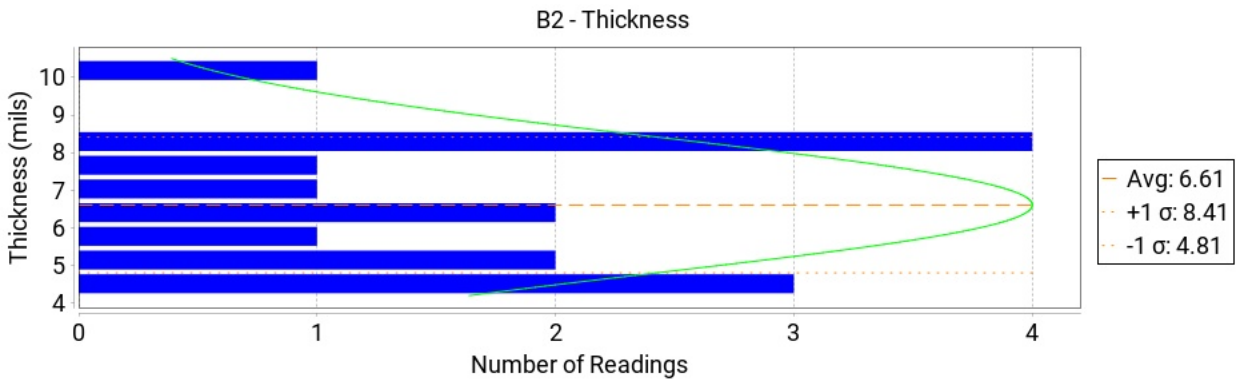
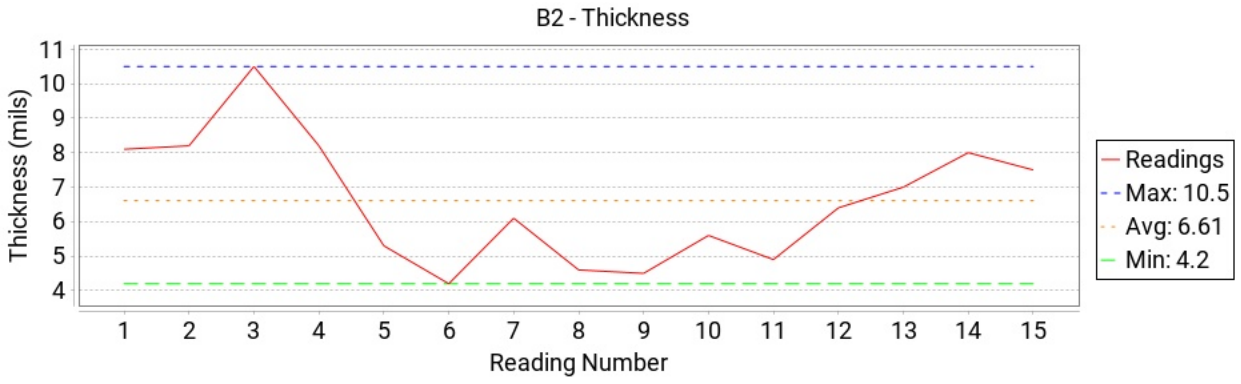
Example of DFTS in Failed area

Summary

	#	\bar{x}	σ	↓	↑
Coating Thickness (mils)	15	6.61	1.80	4.2	10.5

Readings

#	Thickness (mils)	Time
		2022-10-12
1	8.1	10:10:09
2	8.2	10:10:10
3	10.5	10:10:10
4	8.2	10:10:10
5	5.3	10:10:18
6	4.2	10:10:18
7	6.1	10:10:19
8	4.6	10:10:19
9	4.5	10:10:28
10	5.6	10:10:28
11	4.9	10:10:28
12	6.4	10:10:29
13	7.0	10:10:39
14	8.0	10:10:39
15	7.5	10:10:39



B1

Created: 2022-10-12 10:09:24
PosiTector Body S/N: 866643
Probe Type: PosiTector 6000 FNS
Probe S/N: 170155

Calibration

Cal Name: Cal 1
Adjustment Date: 2022-08-17 11:40:47
Adjustment Method: N Factory Zero

DFTS in failed area

Summary

	#	\bar{x}	σ	↓	↑
Coating Thickness (mils)	15	8.70	2.33	6.4	12.8

Readings

#	Thickness (mils)	Time
		2022-10-12
1	7.2	10:09:28
2	7.4	10:09:28
3	9.2	10:09:29
4	9.3	10:09:29
5	6.4	10:09:35
6	6.4	10:09:35
7	6.5	10:09:36
8	7.3	10:09:42
9	8.0	10:09:43
10	6.5	10:09:43
11	7.8	10:09:44
12	12.8	10:09:55
13	12.2	10:09:56
14	11.3	10:09:56
15	12.2	10:09:57

