

In Field Instrument Review
Date Range: 2022.12.12 – 2023.01.03
Review Completed on 2023.02.02 by C. O'Bryant

Status Messages and Action Taken

100355 (Homer PD): 1/9 Blank Error on Subject Tests – No action taken.

100389 (AST/Fairbanks): 3/23 RFI on Subject Tests, 1/23 Interference on Subject Tests – No action taken.

100413 (Fairbanks PD): 1/14 Blank Error on Subject Tests, 1/14 Internal Standard Error on Subject Tests - both status messages occurred on the same subject. Internal standard error (5.4%) followed by blank error, followed by a completed test. Recommend Monitoring

100421 (JBER): 1/11 RFI on Subject Tests, 1/11 Blank Error on Subject Tests – No Action Taken.

100668 (Anchorage PD): 1/8 Blank Error on Subject Tests, 1/8 Standard Out of Range on Subject Tests, 1/8 Filter Wheel Error on Subject Tests, 1/5 Tank Interference on VOC, 1/5 Diagnostic Failed on VOC (due to Filter Wheel Error) – **Recommend Removing the Instrument from Service for Filter Wheel Errors.**

100669 (AST/Soldotna): 1/10 Blank Error on Subject Tests – Followed by two tests that resulted in “Incomplete” Status messages - No action taken.

100670 (Unalaska PD): 1/4 Pump Error on Subject Tests – Followed by completed test – No action taken.

100678 (Sand Point PD): 1/3 Blank Error on VOC – followed by completed VOCs – No action taken.

100689 (Anchorage PD): 2/72 Interference on Subject Tests, 5/72 Blank Error on Subject Tests, 4/72 Standard Out of Range on Subject Tests, 2/72 Diagnostic Failed on Subject Tests (Breath Tube Temperature Too Low), 1/8 RFI on VOC, 4/8 Blank Errors on VOCs, 1/8 Standard Out of Range on VOC - Recommend Monitoring

100690 (Clear AFB): 1/2 Diagnostic Failed on VOC (Internal Standard Failure 4.4%) – Followed by completed VOC – No subject tests were performed during VOC period. – Recommend Monitoring

100697 (Anchorage PD): 7/79 RFI on Subject Tests, 1/79 Interference on Subject Test, 5/79 Tank Interference on Subject Test, 4/9 Tank Interference on VOC, 1/9 Blank Error on VOC, 1/9 Standard Out of Range on VOC – Recommend Monitoring

100698 (AST/Glennallen): 1/2 RFI on Subject Tests, 1/2 Detector Overflow on Subject Test – Based on reviewing the records these two status messages appear to be conducted during testing. – No action taken.

**As the date of this report 100689 and 100697 did not have any additional standard out of range occurrences and minimal tank interferences. Will monitor for additional related status messages.

Follow Up from Previous In Field Instrument Review

100345 (North Pole PD): 7/22 RFI on Subject Tests, 3/22 Standard Out of Range on Subject Tests (2 were followed by a completed test, 1 was followed by an incomplete test, all tests had an elevated detector response). An email was sent to the Breath Test Supervisor to remind officers not to key radios within the vicinity of the DataMaster (100345 2022.12.27 Change In Status) – Recommend monitoring.

No additional status messages during this IFIR cycle - Discontinue Monitoring

100352 (NSBPD): 1/1 Diagnostic Failed on VOC Tests due to an Internal Standard Error. This was followed by a completed VOC Test on 12/13/2022 – Recommend monitoring.

No additional status messages during this IFIR cycle - Discontinue Monitoring

100361 (Nome PD): 3/8 Standard Out of Range on Subject Tests, all 3 status messages occurred on the same subject. The instrument has completed tests occurring afterwards and this status message has not reoccurred during this time period – Recommend monitoring.

No additional status messages during this IFIR cycle - Discontinue Monitoring

100367 (Seward PD): 1/7 Internal Standard Error on Subject Tests followed by a completed test – Recommend monitoring.

No additional status messages during this IFIR cycle - Discontinue Monitoring

100421 (JBER): 6/47 RFI on Subject Tests, 1/47 Subject Interference on Subject Tests, 2/47 Tank Interference on Subject Tests, 13/47 Blank Error on Subject Tests. 2 Tank Interference and 4 Blank Error status messages occurred on the same subject on 10/31/2022. This was followed by a breath test labeled TEST that completed on 11/1/2022. On 11/6/2022, 5 Blank Error status messages occurred on the same subject. This was followed by 6 breath tests labeled TEST, with an additional 4 Blank Error status messages. All Blank Error status messages occurred during/shortly after 2 subjects were tested numerous times and did not reoccur during this time period. An email was sent to the Breath Test Supervisor about repeated tests (100421 2022.12.27 Change In Status) – Recommend monitoring.

One blank error and one RFI status messages during this IFIR cycle, this frequency is considered to be within range - Discontinue Monitoring

100668 (APD): 2/4 Tank Interference on VOC Tests. Breath Test Supervisor performed a tank change due to Tank Interference status messages (100668 2022.12.21 Change In Instrument Status) – Recommend monitoring.

Recommend Removing instrument from service for filter wheel errors.

Agencies not included in this summary: 100423 (Ft. Wainwright MP) – Last upload 2022.12.09, uploading not functional, USB mailed and received for next IFIR cycle.

Subject Test Data

Serial Number	Total Subject Tests	Date Range								Total Tests 336								Total Codes						
		RFI		Pump Error		Interference		Tank Interference		Blank Error		Standard Out of Range		Gas Flow Error		Ambient Fail			Internal Standard Error		Diagnostic Failc			
		Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage		Count	Percentage	Count	Percentage	Count	Percentage
100355	9	0	0%	0	0%	0	0%	0	0%	1	11%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100389	23	3	13%	0	0%	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	4
100413	14	0	0%	0	0%	0	0%	0	0%	1	7%	0	0%	0	0%	0	0%	1	7%	0	0%	0	0%	2
100421	11	1	9%	0	0%	0	0%	0	0%	1	9%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2
100668	8	0	0%	0	0%	0	0%	0	0%	1	13%	1	13%	0	0%	0	0%	0	0%	0	0%	0	0%	2
100669	10	1	10%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100670	4	0	0%	1	25%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100689	72	0	0%	0	0%	2	3%	0	0%	5	7%	4	6%	0	0%	0	0%	0	0%	2	3%	0	0%	13
100697	79	7	9%	0	0%	1	1%	5	6%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	13
100698	2	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
Total	336	13	4%	1	0%	4	1%	5	1%	9	3%	5	1%	0	0%	0	0%	1	0%	2	1%	0	0%	40

**The date range listed above represents the first and last dates of data generated from the DMHost report. The search range could be larger than the date range listed

Subject Test Data

Serial Number	Total Subject Tests	User Abort		Detector Overflow		Barometer Error		Filter Wheel Error		Date Range		Total Tests		Total Messages		Samp Chamb Low		Breath Tube High		Static Analysis Error		Total Codes
										12/13/2022	1/3/2023	336	0.6%	2	0.6%							
										Suck Back Error		Undefined Error		Filter 1 Won't Zero								
100668	8	0	0%	0	0%	0	0%	1	13%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100698	2	0	0%	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
Total	336	0	0%	1	0%	0	0%	1	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2

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VOC Data

Serial Number	Total VOC Tests	Date Range								Total Tests		Total Messages											Total Codes	
		RFI		Pump Error		Interference		Tank Interference		Blank Error		Standard Out of Range		Gas Flow Error		Ambient Fail		Internal Standard Error		Diagnostic Failed				
		12/13/2022	1/3/2023																					
100668	5	0	0%	0	0%	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	20%	2
100678	3	0	0%	0	0%	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100689	8	1	13%	0	0%	0	0%	0	0%	4	50%	1	13%	0	0%	0	0%	0	0%	0	0%	0	0%	6
100690	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	50%	1
100697	9	0	0%	0	0%	0	0%	4	44%	1	11%	1	11%	0	0%	0	0%	0	0%	0	0%	0	0%	6
Total	101	1	1%	0	0%	0	0%	5	5%	6	6%	2	2%	0	0%	0	0%	0	0%	0	0%	2	2%	16

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