

In Field Instrument Review

10/25/2020 to 12/12/2020

Performed by Derek Walton

100255 (Clear AFB): 1/2 Filter wheel error on VOC – resolved by Breath Test Supervisor (100255 2020.12.12 Change In Status) – No action taken

100345 (Valdez PD): 1/5 Pump error on subject tests – No action taken

100354 (Haines PD): 1/6 Pump error on subject tests – No action taken

100355 (Homer PD): 3/13 RFI on subject tests – No action taken

100366 (Anchorage PD): 2/111 Pump error, 1/111 Blank error, 2/111 Standard out of range on subject tests – Most external standard values are typical and the standard out of range messages appear isolated – No action taken

100378 (AST/Fairbanks): 1/54 RFI on subject tests – No action taken

100381 (AST/Soldotna): 8/37 RFI on subject tests, 1/37 Pump error, and 1/37 Standard out of range on subject tests – E-mailed Sgt. Simmons on 12/28/20 who indicated that newer officers were running breath tests, No further action taken

100382 (UAF PD): 3/6 Tank interference, 1/6 Blank error on VOCs – Instrument taken out of service for preventive maintenance (100382 2020.11.15 Change In Status)

100397 (North Slope Borough PD): 1/5 Pump error on subject tests – No action taken

100400 (Craig PD): 1/8 Standard out of range on subject tests, 1/1 Tank interference on VOCs – Failed VOC followed by a completed VOC on 12/14/20 - No action taken

100406 (Juneau PD): 1/13 Pump error on subject tests – No action taken

100412 (Unalaska PD): 1/2 Subject interference – Instrument taken out of service on 11/18/2020 (100412 2020.11.18 Change In Status).

100413 (Kenai PD): 3/19 RFI, 2/19 Blank error, 1/19 Internal standard error on subject tests – Internal standard error appeared to be a sudden, temporary change and not part of a trend, 1 Blank error followed by a completed test. Contacted agency (100413 2020.12.27 Change In Status) – *Recommend monitoring*

100414 (AST/Delta Junction): 2/2 Gas flow errors on VOCs – Instrument removed from service on 11/20/2020 (100414 2020.11.20 Change In Status)

100416 (Fairbanks PD): 4/33 RFI, 1/33 Tank interference on subject tests – No action taken

100421 (JBER): 1/21 RFI, 1/21 Pump error, 2/21 Subject interference, 3/21 Blank error, 1/21 Ambient fail on subject tests – All of these were followed by completed tests – *Recommend monitoring*

100665 (AST/Emmonak): 1/1 Blank error on VOCs – Followed by a successful VOC on 12/13/20, No further action taken

100667 (AST/Tok): 1/1 RFI on VOCs – Followed by a successful VOC on 12/17/20, No further action taken

100668 (Palmer PD): 1/29 RFI, 1/29 Blank error on subject tests – No action taken

100670 (Unalaska PD): 1/1 RFI on subject tests – Electronic data incomplete and was not able to be retrieved until after completion of the In Field review process for this cycle – Contacted the Breath Test Supervisor to retrieve the downloaded electronic data - No action taken

100678 (AST/Mat-Su West): 1/20 Pump error on subject tests – No action taken

100680 (Dillingham PD): 1/1 Diagnostic fail on VOC due to Pump On – Successful VOC completed on 12/17/20, No further action taken

100683 (AST/Glennallen): 3/7 RFI on subject tests – No action taken

100689 (Anchorage PD): 1/140 RFI, 2/140 Pump errors, 3/140 Tank interference, 3/140 Blank errors, 2/140 Internal standard errors, 4/140 Diagnostic failed on subject test – Most status messages followed by completed tests, Diagnostic failed messages all resulted from low breath tube temperature, Internal standard error values were 7% and 25% which did appear to be isolated incidents – Sent an e-mail to one of the Datamaster Supervisors on 01/05/2021 recommending checking the breath hose heater connection to the instrument - *Recommend continued monitoring*

100700 (Wrangell PD): 1/11 RFI on subject tests – No action taken

Follow ups from previous In Field Instrument Review

100386 (AST Unalakleet): No further Standard out of range status messages – 3 successful VOCs during cycle, No further monitoring needed.

100412 (Unalaska PD): Instrument taken out of service on 11/18/2020 (100412 2020.11.18 Change In Status).

100414 (AST/Delta Junction): Instrument removed from service on 11/20/2020 (100414 2020.11.20 Change In Status).

100686 (Whittier PD): VOC completed normally this cycle.

100689 (Anchorage PD): See above - *Recommend continued monitoring*

100692 (AST/Girdwood): No issues on VOC from this cycle.

**Agencies excluded from this review were Eielson AFB (100346), Sand Point PD (100360), and Hoonah PD (100385)

Subject Test Data

Serial Number	Total Subject Tests	Date Range								Total Tests		Total Messages									
		RFI		Pump Error		Interference		Tank Interference		Blank Error		Standard Out of Range		Gas Flow Error		Ambient Fail		Internal Standard Error		Diagnostic Failed	
		10/25/2020	12/12/2020																		
100345	5	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100354	6	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100355	13	3	23%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100366	111	0	0%	2	2%	0	0%	0	0%	1	1%	2	2%	0	0%	0	0%	0	0%	0	0%
100378	54	1	2%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100381	37	8	22%	1	3%	0	0%	0	0%	0	0%	1	3%	0	0%	0	0%	0	0%	0	0%
100397	5	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100400	8	0	0%	0	0%	0	0%	0	0%	0	0%	1	13%	0	0%	0	0%	0	0%	0	0%
100406	13	0	0%	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100412	2	0	0%	0	0%	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100413	19	3	16%	0	0%	0	0%	0	0%	2	11%	0	0%	0	0%	0	0%	1	5%	0	0%
100416	33	4	12%	0	0%	0	0%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100421	21	1	5%	1	5%	2	10%	0	0%	3	14%	0	0%	0	0%	1	5%	0	0%	0	0%
100668	29	1	3%	0	0%	0	0%	0	0%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%
100670	1	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100678	20	0	0%	1	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100683	7	3	43%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100689	140	1	1%	2	1%	0	0%	3	2%	3	2%	0	0%	0	0%	0	0%	2	1%	4	3%
100700	9	1	11%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Total	715	27	4%	11	2%	3	0%	4	1%	10	1%	4	1%	0	0%	1	0%	3	0%	4	1%

Subject Test Data						Date Range		Total Tests			715			0.0%		
						10/25/2020	11/2/2020	Undefined Error	Filter 1 Won't Zero	Samp Chamb Low	Breath Tube High	Static Analysis Error				
Serial Number	Total Subject Tests	User Abort	Detector Overflow	Barometer Error	Filter Wheel Error	Suck Back Error	Undefined Error	Filter 1 Won't Zero	Samp Chamb Low	Breath Tube High	Static Analysis Error					
100255	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100342	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100343	14	0	0%	0	0%	0	0%	0	0%	0	0%					
100344	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100345	5	0	0%	0	0%	0	0%	0	0%	0	0%					
100346	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100347	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100348	2	0	0%	0	0%	0	0%	0	0%	0	0%					
100349	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100350	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100351	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100352	21	0	0%	0	0%	0	0%	0	0%	0	0%					
100353	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100354	6	0	0%	0	0%	0	0%	0	0%	0	0%					
100355	13	0	0%	0	0%	0	0%	0	0%	0	0%					
100356	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100357	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100358	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100359	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100360	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100361	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100362	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100363	3	0	0%	0	0%	0	0%	0	0%	0	0%					
100364	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100365	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100366	111	0	0%	0	0%	0	0%	0	0%	0	0%					
100367	6	0	0%	0	0%	0	0%	0	0%	0	0%					
100368	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100369	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100370	6	0	0%	0	0%	0	0%	0	0%	0	0%					
100371	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100372	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100373	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100374	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100375	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100376	29	0	0%	0	0%	0	0%	0	0%	0	0%					
100377	1	0	0%	0	0%	0	0%	0	0%	0	0%					
100378	54	0	0%	0	0%	0	0%	0	0%	0	0%					
100379	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100380	18	0	0%	0	0%	0	0%	0	0%	0	0%					
100381	37	0	0%	0	0%	0	0%	0	0%	0	0%					
100382	2	0	0%	0	0%	0	0%	0	0%	0	0%					
100384	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100385	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100386	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100387	5	0	0%	0	0%	0	0%	0	0%	0	0%					
100388	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100389	2	0	0%	0	0%	0	0%	0	0%	0	0%					
100390	1	0	0%	0	0%	0	0%	0	0%	0	0%					
100391	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100392	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100395	3	0	0%	0	0%	0	0%	0	0%	0	0%					
100396	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100397	5	0	0%	0	0%	0	0%	0	0%	0	0%					
100398	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100399	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100400	8	0	0%	0	0%	0	0%	0	0%	0	0%					
100402	12	0	0%	0	0%	0	0%	0	0%	0	0%					
100403	3	0	0%	0	0%	0	0%	0	0%	0	0%					
100404	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100405	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100406	13	0	0%	0	0%	0	0%	0	0%	0	0%					
100410	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100411	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100412	2	0	0%	0	0%	0	0%	0	0%	0	0%					
100413	19	0	0%	0	0%	0	0%	0	0%	0	0%					
100414	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100415	1	0	0%	0	0%	0	0%	0	0%	0	0%					
100416	33	0	0%	0	0%	0	0%	0	0%	0	0%					
100417	2	0	0%	0	0%	0	0%	0	0%	0	0%					
100418	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100420	4	0	0%	0	0%	0	0%	0	0%	0	0%					
100421	21	0	0%	0	0%	0	0%	0	0%	0	0%					
100422	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100423	6	0	0%	0	0%	0	0%	0	0%	0	0%					
100424	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100665	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100666	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100667	3	0	0%	0	0%	0	0%	0	0%	0	0%					
100668	29	0	0%	0	0%	0	0%	0	0%	0	0%					
100669	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100670	1	0	0%	0	0%	0	0%	0	0%	0	0%					
100671	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100672	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100673	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100674	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100675	5	0	0%	0	0%	0	0%	0	0%	0	0%					
100676	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100677	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100678	20	0	0%	0	0%	0	0%	0	0%	0	0%					
100679	3	0	0%	0	0%	0	0%	0	0%	0	0%					
100680	5	0	0%	0	0%	0	0%	0	0%	0	0%					
100681	2	0	0%	0	0%	0	0%	0	0%	0	0%					
100682	10	0	0%	0	0%	0	0%	0	0%	0	0%					
100683	7	0	0%	0	0%	0	0%	0	0%	0	0%					
100684	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100685	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100686	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100687	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100688	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100689	140	0	0%	0	0%	0	0%	0	0%	0	0%					
100690	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100691	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100692	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100693	2	0	0%	0	0%	0	0%	0	0%	0	0%					
100694	1	0	0%	0	0%	0	0%	0	0%	0	0%					
100695	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100696	6	0	0%	0	0%	0	0%	0	0%	0	0%					
100697	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100698	4	0	0%	0	0%	0	0%	0	0%	0	0%					
100699	0	0	0%	0	0%	0	0%	0	0%	0	0%					
100700	9	0	0%	0	0%	0	0%	0	0%	0	0%					
Total	715	0	0%	0	0%	0	0%	0	0%	0	0%					

VOC Data

Serial Number	Total VOC Tests	RFI		Pump Error		Interference		Tank Interference		Date Range		Total Tests		Total Messages		Ambient Fail		Internal Standard Error		Diagnostic Failed	
										10/25/2020	12/12/2020	96	10.4%	10	10.4%	0	0%	0	0%	0	0%
100382	6	0	0%	0	0%	0	0%	3	50%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%
100400	1	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100414	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	100%	0	0%	0	0%	0	0%
100665	1	0	0%	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%
100667	1	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100680	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Total	96	1	1%	0	0%	0	0%	4	4%	2	2%	0	0%	2	2%	0	0%	0	0%	1	1%

