Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	North Converse WY Block 5	Day214_90511_1	08/02/2021	214	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Canady	Cessna 404 Titan - N404CP	8513.9	9:05:00	15:05:00	CPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Kennedy	Leica Terrain Mapper - 90511	8517.5	12:37:00	18:37:00	CPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	7		Clear	17	10	30.31

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	15,423	5,344

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	80	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
8	N	16:02:00	16:16:00	00:14:00	22	1.3	
7	S	16:19:00	16:33:00	00:14:00	20	1.3	
6	N	16:37:00	16:51:00	00:14:00	22	1.4	
19	N	16:56:00	17:14:00	00:18:00	22	1.5	Start block 4 @ 15043MSL
18	S	17:17:00	17:34:00	00:17:00	21	1.4	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 5 & 4	Day217_90513_A	08/05/2021	217	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Swain	Cessna 404 Titan - N7079F	3153.4	09:38:00	15:38:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3157.8	12:18:00	18:18:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
230	6	8		Clear	17	8	3018

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	15,423	5,345

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
5	N	15:38:00	15:52:00	00:14:00	20	1.2	BLOCK 5 / 15,423 MSL
4	S	15:54:00	16:08:00	00:14:00	21	1.1	
3	N	16:11:00	16:25:00	00:14:00	22	1.1	
2	S	16:27:00	16:41:00	00:14:00	20	1.3	
1	N	16:43:00	16:57:00	00:14:00	21	1.2	
							BLOCK 4 / 15,043 MSL
27	N	17:03:00	17:20:00	00:17:00	22	1.1	
26	S	17:23:00	17:40:00	00:17:00	20	1.3	
25	N	17:42:00	17:59:00	00:17:00	19	1.3	
22	S	18:01:00	18:18:00	00:17:00	22	1.1	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day219_90513	08/07/2021	219	

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
LaRocque	Cessna 404 Titan - N7079F	3159.2	08:25:00	14:25:00	CPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Denham	Leica Terrain Mapper - 90513	3162.4	12:01:00	18:01:00	CPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
210	9	4		Clear	14	7	30.05

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150		15,043	5,344

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	80	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
21	N	15:41:00	15:58:00		20	1.2	
20	S	16:01:00	16:19:00		19	1.2	
17	N	16:23:00	16:40:00	00:17:00	20	1.2	
16	S	16:43:00	17:01:00	00:18:00	22	1.2	MR 16:51 Cloud 16:53

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

Block 4. Clouds Entered Mission Area.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81320	WY North Converse	Day220_90513	08/08/2021	220	

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Connnolly	Cessna 404 Titan - N7079F	3162.4	08:01:00	14:01:00	CPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Denham	Leica Terrain Mapper - 90513	3166.8	12:41:00	18:41:00	CPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
210	10	8		Clear	19	6	30

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150		15,043	5,344

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	80	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
15	N	15:30:00	15:48:00		24	1.2	MP 15:36
14	S	15:51:00	16:09:00		23	1.2	MP 16:04
13	N	16:12:00	16:29:00	00:17:00	25	1.1	
12	S	16:33:00	16:51:00	00:18:00	22	1.2	
11	N	16:55:00	17:12:00	00:17:00	23	1.1	MP 16:58,17:06,17:08 MR 17:03
10	S	17:16:00	17:34:00	00:18:00	21	1.2	MP 17:19,17:24 MR 17:31

Verify S-Turns After Mission	Yes

Additional Comments

Block 4 MP=Mount Pitch MR= Mount Roll

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day224_90513	08/12/2021	224	

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Connolly	Cessna 404 Titan - N7079F	3166.8	07:56:00	13:56:00	CPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Denham	Leica Terrain Mapper - 90513	3174	01:36:00	19:36:00	CPR

Conditions							
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
320	6	10		Clear	18	7	30.27

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150		15,100	5,344

Settings					
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	80	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
9	N	15:14:00	15:31:00		18	1.3	Blk4
8	S	15:34:00	15:51:00		19	1.2	
7	N	15:56:00	16:13:00	00:17:00	21	1.1	Cloud 16:10
11	S	17:05:00	17:18:00	00:13:00	21	1.3	Blk7 Possible Smoke/Cloud 17:07
10	N	17:22:00	17:35:00	00:13:00	22	1.1	
9	S	17:39:00	17:52:00	00:13:00	22	1.2	
8	N	17:56:00	18:09:00	00:13:00	22	1.1	
7	S	18:13:00	18:26:00	00:13:00	20	1.2	
6	N	18:30:00	18:43:00	00:13:00	23	1	

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

Block 4 and Block 7

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day225_90513	08/13/2021	225	

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Connolly	Cessna 404 Titan - N7079F	3174	08:00:00	14:00:00	CPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Denham	Leica Terrain Mapper - 90513	3178.9	13:14:00	19:14:00	CPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
300	5	10		Clear	16	6	30.34

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150		15,000	5,344

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	80	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
14	N	14:34:00	14:42:00		17	1.4	BLK11 RF
57	N	15:27:00	15:29:00		18	1.2	BLK5 RF
31	S	15:40:00	15:42:00	00:02:00	19	1.2	BLK5 RF
15	N	15:51:00	15:53:00	00:02:00	19	1.1	BLKK5 RF
10	S	16:00:00	16:02:00	00:02:00	19	1.2	BLK5 RF
6	N	16:14:00	16:31:00	00:17:00	19	1.2	BLK4
5	S	16:35:00	16:51:00	00:16:00	20	1.1	BLK4
4	N	16:55:00	17:12:00	00:17:00	17	1.4	BLK4
3	S	17:16:00	17:32:00	00:16:00	20	1.1	BLK4
2	N	17:36:00	17:53:00	00:17:00	22	1.2	BLK4
1	S	17:57:00	18:14:00	00:17:00	23	1.1	BLK4

Verify S-Turns After Mission	Yes

Additional Comments

BLOCK 11 ReFlight, BLOCK 5 ReFlights, BLOCK 4 Thin Smoke Layer in Mission Areas.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day247_90515_A	09/04/2021	247	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Varney	Cessna 404 Titan - N532NM	37.6	09:37:00	15:37:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	45.9	01:45:00	19:45:00	KIDA

Conditions							
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10	12,000	Clear	5	0.6	30.22

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	7,053	16,000	4,744

Settings					
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
8	W	15:37:00	15:38:00		21	1.2	WYDOT Slide
9	E	15:41:00	15:42:00		19	1.3	
10	W	15:45:00	15:46:00	00:01:00	20	1.3	
11	E	15:49:00	15:50:00	00:01:00	19	1.1	Eye Safe Error
12	W	15:53:00	15:54:00	00:01:00	19	1.3	
11	E	15:56:00	15:57:00	00:01:00	21	1.1	
12	W	16:00:00	16:01:00	00:01:00	22	1.2	
13	E	16:04:00	16:05:00	00:01:00	22	1.2	Eye Safe Error
14	W	16:08:00	16:09:00	00:01:00	23	1.2	
15	E	16:12:00	16:13:00	00:01:00	22	1.2	
16	W	16:16:00	16:17:00	00:01:00	23	1.2	
13	E	16:20:00	16:21:00	00:01:00	22	1.2	
1	W	16:25:00	16:26:00	00:01:00	23	1.1	
2	E	16:29:00	16:30:00	00:01:00	23	1.1	Roll
3	W	16:33:00	16:34:00	00:01:00	24	1.1	
4	E	16:37:00	16:38:00	00:01:00	21	1.1	
5	W	16:41:00	16:42:00	00:01:00	20	1.2	
6	E	16:45:00	16:46:00	00:01:00	21	1.2	
7	W	16:49:00	16:50:00	00:01:00	21	1.2	
2	E	16:53:00	16:54:00	00:01:00	23	1.1	
17	W	16:57:00	16:58:00	00:01:00	20	1.2	
18	E	17:00:00	17:01:00	00:01:00	20	1.2	

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day253_90515_A	09/10/2021	253	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Gibilaro	Cessna 404 Titan - N532NM	46.2	09:50:00	15:50:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	51.2	01:23:00	19:23:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10	12,000	Overcast	17	6.7	30.14

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,600	16,400	4,740

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1\46	S	15:50:00	15:54:00		20	1.2	Block 1 Reflights
2\49	N	15:57:00	15:59:00		20	1.3	
3\50	S	16:03:00	16:08:00	00:05:00	20	1.2	
5\56	N	16:29:00	16:31:00	00:02:00	20	1.2	
6\57	S	16:34:00	16:38:00	00:04:00	20	1.2	
9\71	S	16:45:00	16:58:00	00:13:00	21	1.1	Broke off due to heavy clouds southern 15mi
62	N	17:16:00	17:18:00	00:02:00	20	1.2	Block 2
63	S	17:22:00	17:24:00	00:02:00	19	1.3	
64	N	17:27:00	17:30:00	00:03:00	19	1.3	
65	S	17:33:00	17:36:00	00:03:00	18	1.3	
66	N	17:39:00	17:42:00	00:03:00	20	1.5	
67	S	17:45:00	17:49:00	00:04:00	21	1.2	
68	N	17:51:00	17:54:00	00:03:00	21	1.2	
69	S	17:57:00	18:01:00	00:04:00	22	1	
70	N	18:07:00	18:14:00	00:07:00	19	1.3	
71	S	18:18:00	18:26:00	00:08:00	20	1.3	
72	N	18:29:00	18:36:00	00:07:00	21	1.2	
73	S	18:39:00	18:47:00	00:08:00	20	1.3	
74	N	18:50:00	18:58:00	00:08:00	19	1.2	
75	S	19:02:00	19:10:00	00:08:00	20	1.2	
10	N	19:15:00	19:23:00	00:08:00	18	1.2	Northern Half of line, low thick clouds and rain

Verify S-Turns After Mission	Yes

Additional Comments

Clouds/Rain building up throughout day

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 2 and 6	Day255_90513_A	09/12/2021	255	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
O'Leary	Cessna 404 Titan - N7079F	3235.3	09:51:00	15:51:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3238.9	12:32:00	18:32:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
200	6	10	18,000	Scattered	16	3	3020

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	16,070	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
61	S	15:51:00	16:09:00	00:18:00	25	1.1	BLOCK 2 / 16,070 MSL
60	N	16:12:00	16:29:00	00:17:00	23	1.2	
1	S	16:50:00	17:08:00	00:18:00	20	1.5	BLOCK 6 / 14,918 MSL
2	N	17:11:00	17:29:00	00:18:00	21	1.2	
5	S	17:34:00	17:52:00	00:18:00	19	1.2	
6	N	17:54:00	18:11:00	00:17:00	20	1	
7	S	18:14:00	18:32:00	00:18:00	19	1.1	

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	Park Co reflights / WY Converse BLK 2 and 6	Day256_90513_A	09/13/2021	256	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
O'Leary	Cessna 404 Titan - N7079F	3238.9	09:12:00	15:12:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3242	11:24:00	17:24:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10		Clear	13	6	3011

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	16,480	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
10	N	15:12:00	15:14:00	00:02:00	24	1.2	Park Co / 16,480 MSL
9	S	15:17:00	15:19:00	00:02:00	25	1.2	
8	N	15:22:00	15:24:00	00:02:00	25	1.2	
							BLOCK 2 / 16,070 MSL
1	S	15:36:00	15:38:00	00:02:00	25	1.1	
2	N	15:41:00	15:43:00	00:02:00	25	1.1	
3	S	15:45:00	15:47:00	00:02:00	25	1.1	
4	N	15:50:00	15:52:00	00:02:00	25	1.1	
5	S	15:55:00	15:57:00	00:02:00	24	1.1	
							BLOCK 6 / 14,918 MSL
8	S	16:24:00	16:42:00	00:18:00	22	1	
9	N	16:45:00	17:03:00	00:18:00	19	1.3	
10	S	17:06:00	17:24:00	00:18:00	20	1.2	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 1 reflights/BLK2	Day257_90513_A	09/14/2021	257	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
O'Leary	Cessna 404 Titan - N7079F	3243	08:40:00	14:40:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3246.9	11:15:00	17:15:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
160	4	10		Clear	9	2	3014

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	10,663	16,450	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	650	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
72	S	14:40:00	14:58:00	00:18:00	19	1.7	BLOCK 1 / 16,450 MSL / 650kHz
71	N	15:02:00	15:21:00	00:19:00	22	1.3	
58	S	15:26:00	15:44:00	00:18:00	25	1.2	
54	N	15:52:00	16:12:00	00:20:00	25	1.1	
							BLOCK 2 / 16,070 MSL / 670kHz
80	N	16:22:00	16:30:00	00:08:00	22	1.1	
79	S	16:33:00	16:41:00	00:08:00	21	1.1	
78	N	16:44:00	16:53:00	00:09:00	19	1.2	
77	S	16:56:00	17:04:00	00:08:00	19	1.2	
76	N	17:07:00	17:15:00	00:08:00	18	1.3	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK	Day260_90515_1	09/17/2021	260	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Gibilaro	Cessna 404 Titan - N475RC	2544.1	07:25:00	13:25:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Annen	Leica Terrain Mapper - 90515	2549.6	13:10:00	19:10:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
210	10	10		Clear	3	-2	30.13

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	16,070	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
6	N	14:18:00	14:35:00	00:17:00	20	1.2	
7	S	14:39:00	14:57:00	00:18:00	19	1.3	
8	N	15:00:00	15:17:00	00:17:00	20	1.2	
9	S	15:21:00	15:39:00	00:18:00	21	1.2	
10	N	15:43:00	19:59:00	04:16:00	18	1.2	
11	S	16:04:00	16:21:00	00:17:00	18	1.2	
12	N	16:24:00	16:41:00	00:17:00	17	1.3	
13	S	16:45:00	17:03:00	00:18:00	17	1.4	
14	N	17:07:00	17:24:00	00:17:00	19	1.3	
15	S	17:27:00	17:46:00	00:19:00	18	1.4	
16	N	17:49:00	18:07:00	00:18:00	18	1.2	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse Blk2	Day268_90513	09/25/2021	268	

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Connolly	Cessna 404 Titan - N7079F	3267.2	08:26:00	14:26:00	COD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Denham	Leica Terrain Mapper - 90513	3268.7	10:14:00	16:14:00	COD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
		10		Clear	9	1	30.09

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150		14,900	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	80	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
59	S	15:02:00	15:19:00		19	1.3	
58	N	15:24:00	15:41:00		19	1.2	

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

BLOCK 2

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 2	Day211_90515_2	07/30/2022	211	2

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Comer	Reims F406 - N406WT	2447	11:00:00	17:00:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90515	2451.1	11:53:00	17:53:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
350	4	10	17,500	Clear	18	13	30.17

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	16,070	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	80	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	S	17:00:00	17:02:00	00:02:00	17	1.4	
2	N	17:06:00	17:08:00	00:02:00	18	1.2	
3	S	17:11:00	17:13:00	00:02:00	17	1.3	
4	N	17:17:00	17:19:00	00:02:00	18	1.4	
5	S	17:23:00	17:25:00	00:02:00	18	1.2	**CLOUD AT UTC17:24:30**
61	S	17:36:00	17:53:00	00:17:00	19	1.2	**CLOUD AT UTC17:40:10+UTC17:53**

Page 1 **Verify S-Turns After Mission** Yes

Additional Comments

5096GB WU: 09:42MDT WD: 12:45MDT Mx Hobbs out: 6798.5; Mx Hobbs in: 6801.6 ; Cycles: 7432

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 2	Day213_90515_1	08/01/2022	213	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Palesznicki	Reims F406 - N406WT	2451.1	10:28:00	16:28:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90515	2453.8	11:30:00	17:29:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
270	3	5	15,000	Scattered	20	11	30.16

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	16,070	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
17	N	16:28:00	16:46:00	00:18:00	18	1.1	**ENOHD DISABLED**
18	S	16:49:00	17:07:00	00:18:00	16	1.6	
19	N	17:11:00	17:29:00	00:18:00	18	1.2	

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

5054GB WU: 09:38MDT WD: 11:55MDT Mx Hobbs out: 6801.6; Mx Hobbs in: 6803.9; Cycles: 7433

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 2	Day220_90515_1	08/08/2022	220	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Palesznicki	Reims F406 - N406WT	6810.5	08:20:00	14:20:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Annen	Leica Terrain Mapper - 90515	6816.8	14:58:00	20:58:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
340	3	10		Clear	11	7	30.27

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	16,070	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
20	N	15:17:00	15:34:00	00:18:00	18	1.1	**ENOHD DISABLED**
21	S	15:38:00	15:55:00	00:18:00	18	1.1	
22	N	15:59:00	16:17:00	00:18:00	18	1.1	
23	S	16:21:00	16:38:00	00:17:00	15	1.5	
24	N	16:42:00	17:00:00	00:18:00	18	1.1	
25	S	17:04:00	17:22:00	00:18:00	19	1.1	
26	N	17:26:00	17:44:00	00:18:00	19	1.1	
27	S	17:47:00	18:05:00	00:18:00	19	1.1	
28	N	18:08:00	18:26:00	00:18:00	19	1.2	
29	S	18:30:00	18:48:00	00:18:00	18	1.2	
30	N	18:51:00	19:08:00	00:17:00	19	1.1	
31	S	19:12:00	19:31:00	00:19:00	18	1	
32	N	19:35:00	19:52:00	00:17:00	18	1	
33	S	19:56:00	20:14:00	00:18:00	17	1	
							No Sensor or Weather issues

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

N/A

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 2	Day221_90515_1	08/09/2022	221	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Palesznicki	Reims F406 - N406WT	6816.8	08:40:00	14:40:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Annen	Leica Terrain Mapper - 90515	6823.2	15:27:00	21:27:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
350	512	10		Clear	12	8	30.23

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	16,070	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
34	N	15:37:00	15:56:00	00:19:00	18	1.1	**ENOHD DISABLED**
35	S	15:59:00	16:17:00	00:18:00	18	1.1	
36	N	16:21:00	16:39:00	00:18:00	17	1.4	
37	S	16:42:00	17:00:00	00:18:00	19	1.2	
38	N	17:04:00	17:22:00	00:18:00	19	1.2	
39	S	17:25:00	17:43:00	00:18:00	20	1.1	
40	N	17:46:00	18:05:00	00:19:00	21	1	
41	S	18:09:00	18:27:00	00:18:00	20	1.1	
42	N	18:31:00	18:48:00	00:17:00	18	1.2	
43	S	18:52:00	19:11:00	00:19:00	18	1.1	
44	N	19:14:00	19:31:00	00:17:00	17	1.1	
45	S	19:43:00	19:54:00	00:11:00	18	1	
46	N	19:57:00	20:14:00	00:17:00	17	1.1	
47	S	20:17:00	20:35:00	00:18:00	17	1.1	
							No Sensor or Weather issues

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

N/A

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 2	Day227_90515_1	08/15/2022	227	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Palesznicki	Reims F406 - N406WT	6823.2	08:27:00	14:27:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Annen	Leica Terrain Mapper - 90515	6826	11:43:00	17:43:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10		Clear	13	10	30.17

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	16,070	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	90	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
48	N	15:26:00	15:43:00	00:17:00	19	1.1	**ENOHD DISABLED**
49	S	15:47:00	16:04:00	00:17:00	18	1.1	
50	N	16:08:00	16:25:00	00:17:00	17	1.3	**R-1 70% Frame #20 Clouds beginning**
51	S	16:30:00	16:47:00	00:17:00	19	1.2	**Clouded out southern Half**
							Moved to Block 3 Same conditions

Page 1 **Verify S-Turns After Mission** Yes

Additional Comments

Cycles 7441

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 2	Day228_90515_1	08/16/2022	228	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Palesznicki	Reims F406 - N406WT	6826	07:54:00	13:54:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Annen	Leica Terrain Mapper - 90515	6830.1	12:19:00	18:19:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
340	4	10		Clear	13	9	30.23

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	16,070	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	90	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
52	N	14:50:00	15:08:00	00:18:00	18	1.1	**ENOHD DISABLED**
53	S	15:12:00	15:29:00	00:17:00	19	1.1	
54	N	15:32:00	15:50:00	00:18:00	18	1.1	
55	S	15:53:00	16:11:00	00:18:00	17	1.3	
56	N	16:15:00	16:52:00	00:37:00	19	1.1	
57	S	16:35:00	16:54:00	00:19:00	18	1.1	**Clouds Frames 105-112**
58	N	16:57:00	17:15:00	00:18:00	21	1	

Verify S-Turns After Mission Yes

Additional Comments

Cycles 7442

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 3	Day229_90515_1	08/17/2022	229	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Palesznicki	Reims F406 - N406WT	2483.7	10:31:00	16:31:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90515	2489	13:58:00	19:58:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
359	6	10	125,000	Clear	21	11	30.22

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	17,119	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	80	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	N	16:31:00	16:35:00	00:04:00	19	1.2	
2	S	16:38:00	16:42:00	00:04:00	20	1.1	
3	N	16:52:00	17:02:00	00:10:00	19	1.1	
4	S	17:05:00	17:10:00	00:05:00	19	1.1	
5	N	17:15:00	17:20:00	00:05:00	19	1.1	
6	N	17:30:00	17:40:00	00:10:00	19	1.1	
7	S	17:43:00	17:53:00	00:10:00	19	1.1	
8	N	18:04:00	18:20:00	00:16:00	18	1.3	**SMALL CLOUD UTC18:09**
9	S	18:24:00	18:34:00	00:10:00	18	1.1	**ROLL ERROR**
10	N	18:38:00	18:48:00	00:10:00	17	1.2	
11	S	18:52:00	19:02:00	00:10:00	16	1.1	
12	N	19:06:00	19:17:00	00:11:00	17	1.1	
13	S	19:21:00	19:38:00	00:17:00	17	1.2	**SPEED LIMIT**
14	N	19:47:00	19:58:00	00:11:00	17	1.1	

Page 1 **Verify S-Turns After Mission** Yes

Additional Comments

6168GB WU: 09:42MDT WD: 14:42MDT Mx Hobbs out: 6830.1; Mx Hobbs in: 6834.8; Cycles: 7443 GOLD ERROR - BOOT UP: PAV Mx SUGGESTED.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 3	Day230_90515_1	08/18/2022	230	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Palesznicki	Reims F406 - N406WT	2489	10:26:00	16:26:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90515	2492.7	12:29:00	18:29:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
359	7	10	12,500	Few	21	7	30.18

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	17,119	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	80	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
15	N	16:26:00	16:37:00	00:11:00	20	1.1	
16	S	16:41:00	16:52:00	00:11:00	20	1.1	
17	N	16:58:00	17:12:00	00:14:00	20	1.1	
18	S	17:16:00	17:33:00	00:17:00	19	1.2	
19	N	17:40:00	17:54:00	00:14:00	19	1.2	
20	S	17:58:00	18:11:00	00:13:00	18	1.2	**CLOUDS UTC18:06**
21	N	18:15:00	18:29:00	00:14:00	18	1.1	**CLOUDS & CHOP**

Page 1 **Verify S-Turns After Mission** Yes

Additional Comments

5944GB WU: 09:49MDT WD: 13:12MDT Mx Hobbs out: 6834.8; Mx Hobbs in: 6838.1 ; Cycles: 7444

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 3	Day235_90515_1	08/23/2022	235	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Palesznicki	Reims F406 - N406WT	2495.6	10:19:00	16:19:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90515	2498.4	10:55:00	16:55:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
350	5	10	12,000	Scattered	17	12	30.13

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	17,119	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	80	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
22	N	16:19:00	16:33:00	00:14:00	21	1.1	
23	S	16:37:00	16:55:00	00:18:00	20	1.1	CLOUDS UTC16:51 - LINE STOPPED EARLY DUE TO CLOUDS

Page 1 **Verify S-Turns After Mission** Yes

Additional Comments

5717GB WU: 09:36MDT WD: 11:58MDT Mx Hobbs out: 6840.7; Mx Hobbs in: 6843.0; Cycles: 7446 RED ERROR: UTC16:51 ERROR SENDING HEARTBEAT TO LiDAR UNIT.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 2 REFLIGHTS + B3	Day241_90515_1	08/29/2022	241	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Palesznicki	Reims F406 - N406WT	2500.1	10:12:00	16:12:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90515	2504.8	12:56:00	18:56:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
359	6	10	25,000	Clear	15	6	30.19

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	17,119	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	80	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
57	N	16:10:00	16:12:00	00:02:00	20	1.1	
56	N	16:23:00	16:25:00	00:02:00	20	1.2	
51	S	16:30:00	16:47:00	00:17:00	19	1.3	
50	N	16:51:00	17:07:00	00:16:00	18	1.2	**END BLOCK 2 REFLIGHTS**
24	S	17:24:00	17:38:00	00:14:00	17	1.4	**BLOCK 3 CONT**
25	N	17:42:00	17:56:00	00:14:00	16	1.3	
26	S	18:00:00	18:14:00	00:14:00	18	1	
27	N	18:18:00	18:32:00	00:14:00	16	1.1	
28	S	18:36:00	18:56:00	00:20:00	15	1.2	

Verify S-Turns After Mission	Yes

Additional Comments

5670GB WU: 09:28MDT WD: 13:41MDT Mx Hobbs out: 6844.4; Mx Hobbs in: 6848.5 ; Cycles: 7448

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 3	Day243_90515_1	08/31/2022	243	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
LaRocque	Reims F406 - N406WT	2505.9	10:55:00	16:55:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90515	2510.3	13:15:00	19:15:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
359	4	10	25,000	Few	26	8	30.27

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	17,119	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	80	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
29	N	16:55:00	17:08:00	00:13:00	18	1.1	
30	S	17:12:00	17:25:00	00:11:00	17	1.3	
31	N	17:28:00	17:41:00	00:13:00	18	1.1	
32	S	17:44:00	17:57:00	00:13:00	19	1.1	
33	N	18:07:00	18:27:00	00:20:00	17	1.1	
34	S	18:30:00	18:43:00	00:13:00	16	1.2	
35	N	18:47:00	19:00:00	00:13:00	17	1.1	
36	S	19:03:00	19:15:00	00:12:00	16	1.2	**ROLL LIMIT**

Verify S-Turns After Mission Yes

Additional Comments

5521GB WU: 10:11MDT WD: 14:03MDT Mx Hobbs out: 6848.9; Mx Hobbs in: 6852.7 ; Cycles: 7450

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 3	Day246_90515_1	09/03/2022	246	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
LaRocque	Reims F406 - N406WT	6852.7	07:39:00	13:39:00	KIDA
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Annen	Leica Terrain Mapper - 90515	6857.7	01:05:00	19:05:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
358	5	10		Clear	8	4	30.23

Ground Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150			4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	90	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
37	N	14:36:00	14:49:00	00:13:00	17	1.3	**ENOHD DISABLED**
38	S	14:51:00	15:03:00	00:12:00	18	1.2	
39	N	15:06:00	15:17:00	00:11:00	20	1.1	
40	S	15:19:00	15:30:00	00:11:00	20	1.1	
41	N	15:33:00	15:44:00	00:11:00	21	1.1	
42	S	15:47:00	15:57:00	00:10:00	19	1.1	
43	N	16:00:00	16:11:00	00:11:00	20	1.1	
44	S	16:15:00	16:25:00	00:10:00	19	1.3	
45	N	16:28:00	16:38:00	00:10:00	19	1.1	
47	S	16:46:00	16:57:00	00:11:00	18	1.3	Intentionally flown out of order
46	N	17:00:00	17:11:00	00:11:00	18	1.2	Intentionally flown out of order
48	S	17:13:00	17:24:00	00:11:00	18	1.2	
49	N	17:27:00	17:38:00	00:11:00	18	1.1	
50	S	17:41:00	17:51:00	00:10:00	17	1.2	
51	N	17:55:00	18:05:00	00:10:00	16	1.2	
52	S	18:08:00	18:20:00	00:12:00	16	1.2	
							No sensor or weather issues

Page 1 **Verify S-Turns After Mission** Yes

Additional Comments

Cycles 7451 Hobbs: 2510.3/2515.7

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	81328_WY_North_Converse_Block3	Day250_90515_1	09/07/2022	250	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
LaRocque	Reims 406 - N406WT	6858.8	08:53:00	14:53:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Annen	Leica Terrain Mapper - 90515	6862.2	12:30:00	18:30:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
340	4	10		Clear	14	6	30.24

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150		17,119	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	90	670	100

Verify S-Turns Before Mission

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
53	N	15:47:00	15:58:00	00:11:00	19	1.1	ENOHD Disabled
54	S	16:01:00	16:12:00	00:11:00	19	1.2	
55	N	16:15:00	16:27:00	00:12:00	17	1.1	
56	S	16:30:00	16:41:00	00:11:00	17	1.4	
57	N	16:44:00	16:56:00	00:12:00	17	1.4	
58	S	16:59:00	17:12:00	00:13:00	17	1.3	
59	N	17:14:00	17:26:00	00:12:00	17	1.3	
60	S	17:29:00	17:42:00	00:13:00	19	1	

Verify S-Turns After Mission: Yes

Additional Comments

2517.1 / 2520.8 6858.8 / 6862.2 Cycles 7453

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	81328_WY_North_Converse_Block3	Day254_90515_1	09/11/2022	254	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
LaRocque	Reims 406 - N406WT	2524.1	07:44:00	13:44:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Annen	Leica Terrain Mapper - 90515	2529.4	12:34:00	18:34V	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
355	6	10		Clear	3	0	30.27

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150			4,711

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
61	N	14:40:00	14:54:00	00:14:00	20	1.1	
62	S	14:57:00	15:11:00	00:14:00	20	1.1	CYCLES 7456
63	N	15:13:00	15:27:00	00:14:00	19	1.1	
64	S	15:30:00	15:43:00	00:13:00	19	1.1	
65	N	15:46:00	15:59:00	00:13:00	18	1.2	
66	S	16:02:00	16:16:00	00:14:00	18	1.2	
67	N	16:18:00	16:32:00	00:14:00	17	1.3	
68	S	16:35:00	16:49:00	00:14:00	17	1.2	
69	N	16:52:00	17:05:00	00:13:00	17	1.2	
70	S	17:09:00	17:23:00	00:14:00	15	1.3	
71	N	17:25:00	17:39:00	00:14:00	16	1.3	System froze up at the end of line.
							Forced shutdown

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

The system locked up upon ending the line. The laser remained active and the PAV went into a Drift mode. I had no electronic control over the system. I had to do a forced shut down after the end of line caliration turns.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	81328_WY_North_Converse_Block3	Day256_90515_1	09/13/2022	256	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
LaRocque	Reims 406 - N406WT	2531.4	08:10:00	14:10:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Monter	Leica Terrain Mapper - 90515	2536	12:34:00	18:34:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
190	4	10		Clear	10	1	29.97

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150		17,115	4,711

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
72	N	15:01:00	15:15:00	00:14:00	17	1.2	
73	S	15:18:00	15:32:00	00:14:00	18	1.2	
74	N	15:35:00	15:49:00	00:14:00	17	1.3	
75	S	15:52:00	16:06:00	00:14:00	17	1.3	Reflight
76	N	16:09:00	16:23:00	00:14:00	16	1.5	Reflight
77	S	16:26:00	16:40:00	00:14:00	16	1.5	Reflight
21	N	16:51:00	17:05:00	00:14:00	17	1.2	Reflight
20	S	17:08:00	17:22:00	00:14:00	17	1.1	Reflight
6	N	17:29:00	17:39:00	00:10:00	15	1.3	Reflight
8	S	17:42:00	17:54:00	00:12:00	15	1.3	Reflight

Verify S-Turns After Mission	Yes

Additional Comments

6871.5/6875.7 Cycles 7458

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	81328_WY_North_Converse_Block3	Day262_90515_1	09/19/2022	262	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Palesznicki	Reims 406 - N406WT	2538.2	09:25:00	15:25:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Monter	Leica Terrain Mapper - 90515	2542.2	12:41:00	18:41:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
231	44	10		Clear	16	-1	30.1

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150		17,119	4,692

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	8	40	80	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
35	S	16:17:00	16:31:00	00:14:00	18	1.1	Reflight

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

6877.2/6880.4 Cycles 7460