## NATIONAL TRANSPORTATION SAFETY BOARD PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT This form to be used for reporting civil and public use aircraft accidents and incidents

BASIC INFORMA	TION					(5) (6) (6) (6)	all all as a				
Accident/Incident Loca	D	Date/Time									
Accident/Incident Location  Nearest City/Place: Livermore State: CA  ZIP: 94551 Country: USA				Date: 10/20/2013 Local Time: 1400							
ZIP: 94551 Country: USA				mm/dd/yyyy  Time Zone: Pacific					<del></del>		
Latitude:(d	ld:mm:ss N/S) Longitude:	(c	ldd:mm:ss E/W)				Tim	ie Zone: Pa	CITIC		
Phase of Operation				C	ollision with C	ther Airc	raft	Altitude (	of In-Flight		
☐ Standing ☐ Takeoff ☐ Taxi ☐ Climb ☐ Descent ☐ Landing	(incl. initial climb) ☐ Crui: ☐ Man ☐ Appi	euvering [	Hover Other Unknown	<b>√</b>	Midair On-ground None			Occurren	ice		
AIRCRAFT INFORMATION											
Manufacturer: Aviat				VIII.	Mar Cuan V	Vođeka.		1 700 "			
Model: Pitts S-2C					Max Gross V Weight at Tir						
Serial Number: 6045					Location of C					166 lbs	
Registration Number:	N15TA	Amateur-bui	lt: 🗌 Yes 🗹 N	Jo.					or 🛮 datu		
					-or-		Percent N	lean Aerod	ynamic Cord	(% MAC)	
Category of Aircraft  Airplane	Type of Airworthiness ( (Check all that apply)	Certificate	Number of	Sea	ats:	2	Landin	ig Gear	Retrac	table	
☐ Balloon	Standard Spec	cial	If Large Airc	raft.	, how many seats	for	Check	any addition	nal landing ge	ear	
☐ Blimp/Dirigible ☐ Glider	☐ Normal ☐ Re	estricted					Configu	uration that		iilwheel	
☐ Gyrocraft		mited ovisional					_	-	_		
Helicopter Powered lift	☐ Transport ☐ Ex	xperimental					Em	phibian ergency Flo	oat ∐SI	igh Skiđ tid	
Ultralight		pecial Flight ght Sport	1 assenge	C15		<del></del>	∏ Flo	at	□ SI	i	
Unknown		Sur oport						u known	□ 8	:i/Wheel	
Type of Maintenance Pr	ogram	Last Inspec	ction Type	_		Date La	st Inspec	tion:	05/02/2013	· · · · · · · · · · · · · · · · · · ·	
<ul><li>✓ Annual</li><li>✓ Conditional (Amateur-bu</li></ul>	ilt only)	100 Hour Continu			ous Airworthiness			mm/dd/yyyy			
Manufacturer's Inspection	n Program	Annual	AAIP Conditional Unknown						al Time: 2,153 hrs		
☐ Other Approved Inspection ☐ Continuous Airworthines								at (check		hrs	
Other, specify: 100 hr						□L	ast Inspect	ion 🗾 T	ime of Accid	ent/Incident	
IFR Equipped			ing System Inst								
Yes No Unkn	own	☑ Yes 🔲	No 🔲 Unknov	wn		☑ None					
				Specify							
ELT Installed EI	T Activated	FIT Monu	featuron. Emer	raai	ncy Beacon C	`orn					
☑ Yes ☐ No ☐	Yes 🔽 No	I	anufacturer: Emergency Beacon Corp. Series: EBC-502								
ELT Aided in Locating	Accident/Incident	Serial Num									
☐ Yes  ☑ No		Battery Typ					Rattor	 w Evn. Da	ate: <u>09/2</u> 01	1	
Engine Type	Reciprocation	g Fuel	Propeller				Datter	y Exp. D.	ite. <u>03/20  </u>	<u> </u>	
Reciprocating Turk	1 🗂					Wan	taall				
☐ Turbo Shaft ☐ Turbo Prop ☐ Unk			☐ Fixed Pitch  Controllable P	Pitch		<sub>turer:</sub> <u>Har</u> IC-C3YR		n=	<del>-</del>	<del></del>	
		<u>-</u>			IMODEI: 1	Engine Ra		<u> </u>	r		
						Power Me	asured		Time	Time	
	Engine	Ma	mufacturer's		Date	as (check	one) power or	Total	Since	Since	
Engine Engine Manufactu	rer Model/Series	Ser	ial Number		of Mfg. mm/dd/yyyy			Time (hours)	Inspection (hours)	Overhaul (hours)	
Eng. 1 Lycoming	AEIO-540	L-274	432-48A		03/24/2000		260	2,153	85	636	
Eng. 2 Eng. 3											
Eng. 4					-			ļ			
								<u>L</u>	L		

OWNER/OPERATOR INFORM	MATION				
Registered Aircraft Owner	Owner Address				
Name: Attitude Aviation, Inc.	City: Livermore				
Fractional Ownership Aircraft: Yes	State: CA Country: USA	ZIP: <u>94551</u>			
Operator of Aircraft	Operator Address Same As Registered Owner				
Name:		<del></del>	City:		
Doing Business As:  Air Carrier/Operator Designator (4 Chara	natar Cada):		State:	ZIP:	
Regulation Flight Conducted Under	ictel Code).		Country:	TO! 1.	
	91 Special Flight Public Use (s		Revenue Sightseeing		
☐ FAR 91 ☐ FAR 129 ☐ FAR 92 ☐ FAR 93 ☐ FAR 133 ☐ Non-U☐ FAR 121 ☐ FAR 135 ☐ Non-U☐ FAR 125 ☐ FAR 137 ☐ Armed	☐ Yes ☑ No  Air Medical Flight ☐ Yes ☑ No				
Purpose of Flight for FAR 91, 103, 133, 137 (Select one)	Revenue Operation for FAR 121, 125, 129, 135	(Select one)	Type of Commercia	l Operating Certificate Held	
Personal Business Executive/Corporate Other Work Use Instructional Ferry Positioning Aerial Application	Scheduled or Commuter Non-Scheduled or Air Ta  Domestic or International Domestic Internat	ıxi	None   Flag Carrier Operati   Supplemental   Air Cargo   Foreign Air Carriers   Commuter Air Carri   On-Demand Air Tay	s (129) er (135) ci (135)	
☐ Aerial Observation ☐ Air Drop ☐ Air Race / Show ☐ Flight Test ☐ Public Use ☐ Unknown	Cargo Operation  Passenger/Cargo Passenger Cargo Mail	_How many? lbs	Rotorcraft External Load (133) - or -  Agricultural Aircraft (137)  Other Operator of Large Aircraft		
OTHER AIRCRAFT - COLLIS	ION (If air or ground collision or	curred, complete t	this section for other a	alroraft)	
	facturer: Cessna			Damage to Other Aircraft	
- 1	: 1728			Destroyed Minor	
Registered Owner of Other Aircraft				Substantial None	
First Name: Blue Granite Consulting Middle Initial: Last Name:		City: Sunnyv State: CA Country: USA	ZIP: 94087		
Pilot of Other Aircraft		<del></del>	<u>·                                      </u>		
First Name: Mathew Middle Initial: Last Name: Debskl		City: <u>San Ca</u> State: <u>CA</u> Country: <u>US</u> A	ZIP: 94070		
MECHANICAL MALFUNCTION	N/FAILURE (If more space is	needed, continue c	on separate sheet)		
Was there Mechanical Malfunction/Fai (If yes, list the name of the part, manufacturer,	ilure? Yes No Unkno	wn	Frankrik (m. 1942)	Total Time/Cycles On Part	
				Hours	
				Cycles	
		Time Since This Part Inspected/Overhauled			
				Hours	
DAMAGE TO AIRCRAFT AND	OTHER PROPERTY		457.94		
	ircraft Fire		Aircraft Explosion		
☑ None ☐ Substantial ☑	None Both Ground a In-Flight Unknown Orig On-Ground		✓ None	☐ Both Ground and In-Flight ☐ Unknown Origin	

Description of Damage to Aircraft and C	ther Property (use add	itional sheet if i	necessary)				
Pitts N15TA: Damage limited to propeller bla	des (scratches). Engine	& prop have b	een sent to outsid	le vendors for te	eardown and	repair as necessary.	
Cessna N698SP: Damage limited to Left Ele	vator, Rudder and Vertica	al Stabilizer.					
See photos.							
AIRPORT INFORMATION (If the	e accident/incident occ	urred on app	oach, takeoff or	within 3 miles	of an airport	complete this section)	
Airport Identifier:			Distance Fron				
Airport Name:						degrees MAG	
Proximity to Airport Off Airport/Airst	rip 🗌 On Airport 🔲	On Airstrip	Airport Eleva				
Approach Segment (Select one)							
☐ On Instrument Approach ☐ Landin☐ Crosswind ☐ Down		e leg v Approach	Fi	nal borted Landing (a	efter toughdou	Go Around	
IFR Approach (Check all that apply)	HILL LIOW	Approach	VFR Approach	***************************************		n)	
None PAR		Practice	□None		☐ Ste	op and Go	
☐ ADF/NDB ☐ Sidestep ☐ ILS		GPS Loran	☐ Traffic Patterr☐ Straight-In	1		ouch and Go mulated Forced Landing	
□ VOR/TVOR       □ Localizer Only         □ VOR/DME       □ LOC-back course	☐ Visual ☐ Contact	Unknown	☐ Valley/Teπair	ı Following	☐ Fo	rced Landing	
TACAN RNAV	Circling		☐ Go Around ☐ Full Stop			ecautionary Landing aknown	
Runway Information			Condition of R	unway/Landir	g Surface	(Check all that apply)	
Runway ID:(L/R/C) Length:	ft Width:	ft	☐ Dry ☐ Holes	Snow-	Compacted Crusted	☐ Water-Calm ☐ Water-Choppy	
Runway/Landing Surface (Check all that			☐ Ice Covered	Snow-	Dry	☐ Water-Glassy	
☐ Asphalt ☐ Grass/Turf ☐ Mac ☐ Concrete ☐ Gravel ☐ Meta	adam 🔲 Water al/Wood 🔲 Unknown	•	Rough Rubber Depos	Snow-		☐ Wet ☐ Unknown	
Dirt Ice Snov			Slush Covered		ation	L] Olkhown	
FLIGHT ITINERARY INFORMA							
Last Departure Point	Time of Departure	Destination				t Plan Filed	
Airport ID: KLVK	Time: 1300		KLVK		☑ None ☐ Company	☐ VFR/IFR VFR ☐ IFR	
City: Livermore State: CA	Time Zone: Pacific	City: Livern	nore		☐ Military \		
Country: USA	THIC ZOIC. T Soile	State: <u>CA</u> Country: <u>US</u>	□ VFR SA   Activated? □ Yes □ No				
Type of ATC Clearance/Service (Check a	II that apply)	Country: 03			remacu.		
☑ None ☐ Special VFR	☐ Specia	al IFR	☐ VF	R Flight Followi	ng	Cruise	
□ VFR □ IFR	☐ VFR (			ffic Advisory		Unknown / NA	
Airspace where the accident/incident occ Class A Class E		<i>ply)</i> nibited Area		□ + . m · ·	4	<b>—</b>	
Class B Class G		tricted Area		☐ Jet Training ☐ TRSA	Area	☐ Special ☐ Air Traffic Control Area	
☐ Class C ☐ Demo Area ☐ Class D ☐ Warning Area		itary Operations oort Advisory A		☐ FAR 93		Unknown	
Aircraft Load Description (Check all that							
None Towing Glide		chutists		Livestock			
☐ Passengers ☐ Towing Banne ☐ Cargo ☐ Other External		er mical/Fertilizer	/Seeds	Unknown			
<b>FUEL &amp; SERVICES INFORMAT</b>	ION						
Fuel on Board at Last Takeoff	Fuel Type						
(convert from pounds, as necessary)	☐ 80/87  100 Low Lead	☐ 115/145 ☐ Jet A	☐ JP3	Oth	er, specify		
23 Gallons	100/130	Automotive	□ JP4 e □ JP5				
Other Services, if Any, Prior to Departur	·e						

<b>EVACUATION OF AIR</b>	RCRAFT		5.00		Section 1	10 pt						
Was an emergency evacuation	on of the aircraf	t performe	d?	☐ Yes	☑ No							
Method of Exit - Describe how the occupants exited and how many occupants evacuated each location												
WEATHER INFORMA	TIONATTH	E ACCII	DEN	T/INCIDE	NT SITE							
Weather Observation Facilit			Sour	ce of Wea	ther Informatio	n		Method of				
Facility ID: KLVK		_		ek all that ap ational Weat				(Check all th				
Observation Time: 1400		_	⊟Fi	ight Service	Station		☐ Company ☐ Military	☐ In Person ☐ Teletype				
Time Zone: Pacific				V/Radio utomated Re	nort		☐ Internet ☐ Unknown	Telephon	e/Computer			
Distance from Accident Site:		MM	l ⊟a	ommercial V	port Veather Service (D	UATS	S)	TV/Radio				
Direction from Accident Site:		rees MAG							1			
Briefing Type/Completeness	☐ Abbrevia		Ligh □D	t Condition				Visibility				
Partial / Limited By Pilot	Unknown	1	Z D		☐ Dusk ☐ Night		☐ Dark Night ☐ Bright Night	20	miles			
Partial / Limited By Briefer	☐ Not Perti				<u> </u>		Not Reported					
Sky/Lowest Cloud Condition  Clear	Thin Broken	Ceiling None	(oleans)		Obscured		Restriction to Visibility		hat apply)			
☐ Few	Thin Overcast	☐ Broke	n		Indefinite		✓ None ☐ Blowing Dust	☐ Fog ☐ Grou	nd Fog			
Partial Obscuration	Unknown	Overo	ast		Unknown		☐ Blowing Sand	Haze	+			
Lowest Cloud Condition Hei	oh t	Ceiling	- Heigh	<del></del> -	·		☐ Blowing Snow ☐ Blowing Spray	∏ Ice F				
	ft AGL	Coming		•	ft AGL		☐ Dust	Unkn	nown			
Wind Direction	Wind Speed	J <u>.</u>		Wind Gu		$\dashv$	Type of Turbulence (C.	heck all that a	nnhı)			
☐ Indicated:	Velocity:	KTS		Velocity:			☑ None ☐ In Cl	-	49)			
degrees MAG	-or-			, -				nity of Thunder	rstorm			
<b>√</b> ] Variable	☐ Calm ☑ Lìght and Var	ialt.	Gusting				Severity of Turbulence					
M. Astranic	M Digit and var	Hote	☐ Not Gusting				☐ Extreme ☐ Moderate ☐ Light ☐ Severe ☐ Moderate Chop					
NOTAMs (D, L and FDC)	, AIRMETs, S	IGMETs	. PIR	EPs in eff	ect at the time	e of 1						
	,,		,		out he die this		are accidents incluent					
									·			
Temperature: (C)	] ]	cing Fored			Туре		Type of Precipitation		that apply)			
$\begin{array}{ccc} \textbf{Temperature:} & \underline{\hspace{1cm}} & (C) \\ \text{or} & \underline{\hspace{1cm}} & 75 \end{array} (F) \end{array}$	ĺ	None	<u> </u>	Moderate	Rime		✓ None □ Rain	☐ Drizzle ☐ Ice Pellets				
Altimeter Setting:i		Trace Light	LJ S	Severe	☐ Clear ☐ Mixe		Snow Hail	Snow Pelle				
	MB -					·	Rain Showers	☐ Snow Grain ☐ Ice Crystal	8			
Density Altitude:	ft   <sup>1</sup>	cing Actus Amour			Туре			☐ Ice Pellets ☐ Freezing D				
<b>Dew Point:</b> (C) or(F)	1 3	<b>7</b> Nопе		Moderate	Rime			<del></del>				
οι(r)		Trace Light	LI S	Severe	☐ Clear ☐ Mixe		Intensity of Precipi		Пт			
							☐ Light ☐ M	oderate	☐ Heavy			

	PILOT "A" INFORMATION										
Pilot "A" Responsibilities a  ☑ Pilot ☐ Co-Pilot		e <b>nt/Incid</b>   Flight In		☐ Check F	Pilot	☐ Flight	Engineer	Other	Flight Crew		
Pilot "A" Identification											·
First Name: Arnold   City: Belmont											
Age at time of Accident/Incident: 62 Date of Birth: 1951 Certificate Number: +											
Degree of Injury  ✓ None ☐ Fatal ☐ Minor ☐ Unknown ☐ Serious	Right <b>2</b>	Front Rear Single	☐ Unkn		Scat Used Availa			] No ] No	Shoulder H Used Available	Yes	□ No □ No
Pilot Certificate(s) (Check at				France							
	ht Instructor	Recre			mmercia line Tra			Flight Engir U.S. Militar		☐ Foreign	
☐ Pilot ☑ Other	Medical Certificate  ☐ None	ver's Lice	nse (Sport Pil	lot only)		ithout limit	ificate Val tations/waiv ions/waivers	vers	Date of La		I
Medical Certificate Limitat	ions				<del>,</del>				.•		
Medical Certificate Waiver	<u> </u>										
None	o.										
	.=	T		<del></del>		<del> </del>				<del></del>	
Date of Last Flight Review or Equivalent, Including		1 ~	t Review Ai						· <del>-</del>	_ <del>-</del>	
FAR 121/135 Checks:	03/03/2013		Aviat Pitts	8							
Almin Port C	mm/dd/yyyy	_1	: S-2C					-			
Airplane Rating(s) (Check all that apply)	Other Aircraft Ra (Check all that apply)			ment Rat all that app							
☐ None	✓ None		7 Non	ne	r*91						
Single-Engine Land	☐ Airship		l □ Airc	plane	Airplane Single-Engine Instrument He						Telicopter
☐ Single-Engine Sea ☐ Multiengine Land	☐ Free Balloon ☐ Glider		🔲 Heli	icopter vered Lift			☐ Airplane ☐ Gyropla	e Multi-Engi	ne 🗌	Helicopter Glider	
Multiengine Sea	Gyroplane		I row	.v.cu LIII			Powered			Glider   Sport	
	☐ Helicopter☐ Powered Lift						-24		_	•	
Type Ratings	T TOMESET PHE						Student F	ndorseme	nts (Include a	lates)	
None Natings							ucut E	avi seiile.	ты (пісния с		
							1		<del></del>		
Flight Time (enter appropriate mumber of hours in each box)		ls Make Model	Airplane Single Engine	Airpl Multie		Nlght	Instr Actual	rument Simulated	Rotorcraft	Glider	Lighter Than Air
Total Time	701	63	68	<del></del>	19	26		2		1	0
Pilot in Command (PIC)	553	48	58	53	0	23			<u>L</u>	0	
Time as Instructor											
This Make/Model						0					
Last 90 Days	12	5			0	0					
Last 30 Days	7	1		7	0	0					
Last 24 Hours	0	0	1	ol	0	0	0	!	1		[

PILOT "B" INFORMA	TION			osjenje dojenje og							
Pilot "B" Responsibilities at											
	Student Pilot	] Flight Ins	structor 🔲	Check Pilot	☐ Flig	ht Engineer	Other	Flight Crew			
Pilot "B" Identification										·	
First Name:			• • • • • • • • • • • • • • • • • • • •	Ci	ty:						
Middle Initial: Last Name:				St	ate:	Z	IP:				
Į.					эшигу:						
Age at time of Accident/Incid	ent: Da	ate of Birt	h; mm/dd/yy	C	ertificate	Number:					
Degree of Injury	Seat Occupied			~~	at Belt			Shoulder H	arness	<u> </u>	
None Fatal	Left	Front	Unknown				No	Used	☐ Yes	□ No	
☐ Minor ☐ Unknown ☐ Serious		Rear Single		Ava	ailable	☐ Yes [	] No	Available	Yes	□ No	
Serious Center Single  Pilot Certificate(s) (Check all that apply)											
☐ None ☐ Stud	ent	Recreat	tional	☐ Commer	cial	П	Flight Engir	neer	☐ Foreign		
		Sport		Airline T	ransport		U.S. Militar				
·	Medical Certificate					rtificate Va		Date of L	ast Medica	1	
Pilot C	None Clas		se (Sport Pilot			mitations/waivers					
	Class 2 Unk	nown	se (sport i not		Unknown		•	mm/dd/)	ענעע		
Medical Certificate Limitati	one		<del></del>					<u> </u>	<del></del> -		
	ous										
										·	
Medical Certificate Waivers											
Date of Last Flight Review		Rlight I	Review Airc	roft					<del>.</del>	<u></u> .	
or Equivalent, Including		_									
FAR 121/135 Checks:	mm/dd/yyyy	Model:							<del></del> .	<del></del>	
Airplane Rating(s)	Other Aircraft Ra		T			T 4 4 -	72 (1 (1)				
(Check all that apply)	(Check all that apply)			ent Rating(; ! that apply)							
None	☐ None		None	• • • • • • • • • • • • • • • • • • • •		☐ None	•••		Instrument A	irolane	
☐ Single-Engine Land☐ Single-Engine Sea	☐ Airship ☐ Free Balloon		Airplai	ne =to=	☐ Airplane Single-Engine ☐ Instrument Helicopter ☐ Airplane Multi-Engine ☐ Helicopter						
☐ Multiengine Land	Glider		Powere	pter ed Lift	į	Gyroplan			Helicopter Glider		
☐ Multiengine Sea	Gyroplane Helicopter				1	Powered			Sport		
	Powered Lift										
Type Ratings				•		Student Er	ndorsemen	ts (Include de	ites)	<del></del> -	
<u>.</u> !											
-											
Might Time	T		Airpiane			Inne	rument	1		<u> </u>	
Flight Time (enter appropriate number of hours in each box)	1	s Make Model	Single Engine	Airplane Multiengine	Night		Simulated	Rotorcraft	Glider	Lighter Than Alr	
Total Time					1.1911	Actual	Simulated	Kotorcian	Guder	LIBIT ALT	
Pilot in Command (PIC)				,	1		<u> </u>	+	-	<del> </del>	
Time as Instructor					<del>                                     </del>			<u> </u>			
This Make/Model				9.16 (1.12)	96			_	10,160,51		
Last 90 Days											
Last 30 Days											
Last 24 Hours	1										

ADDITIONAL FLIGHT CREW	MEMBERS (E	xclusive of cabin att	endants, complete the	following	g infor	matic	on)	
Pilot Name and Address							Degree of In	
First Name: James		City: Livermore					None	☐ Fatal
Middle Initial: R  Last Name: Perkins		State: CA	zip: 94551				☐ Minor ☐ Serious	Unknown
	-1-1	Country: USA						- 1
Pilot Certificate(s) (Check all that app	_	Commercial	Diaht Emailer	L_1 22	i		Seat Occupi	ed ▼ Front
Private Flight Instructor		Airline Transport	☐ Flight Engineer ☐ U.S. Military	☐ Fo	reign		Right	Rear
Type Rating/Endorsement for	_	Total Flight Tin	ne at the Time			一	Center	☐ Single
Accident/Incident Aircraft?	Yes 🗹 No	of this Accident		00 hrs				Unknown
Pilot Name and Address							Degree of In	ijury
First Name: Arnold		City: Belmont					✓ None	☐ Fatal
Middle Initial:		State: CA	ZIP: 94002			:	☐ Minor ☐ Serious	Unknown
Last Name: Moston		Country: USA		<del></del>				
Pilot Certificate(s) (Check all that app		7.0		-			Seat Occupi	
	Recreational [ ] Sport [	Commercial Airline Transport	☐ Flight Engineer ☐ U.S. Military	☐ Fo	reign		☐ Left ☐ Right	☐ Front ☑ Rear
Type Rating/Endorsement for		Total Flight Tin		· · · · · · ·			Center	Single
Accident/Incident Aircraft?	Yes 🗹 No	of this Accident		00 hrs				Unknown
Pilot Name and Address		<u> </u>			<del></del>	T	Degree of In	ijury
First Name:		City;					☐ None	☐ Fatal
Middle Initial:		State:	ZIP:				☐ Minor ☐ Serious	Unknown
Last Name:		Country:						
Pilot Certificate(s) (Check all that app		7.0	<b>—</b>	_			Seat Occupi	
	Recreational Sport	Commercial Airline Transport	☐ Flight Engineer ☐ U.S. Military	☐ Fo	reign		☐ Left ☐ Right	☐ Front ☐ Rear
Type Rating/Endorsement for		Total Flight Tin				$\dashv$	Center	☐ Single
	Yes 🗌 No		/Incident:	hrs				☐ Unknown
		1				- 1		
PASSENGER(S) / OTHER PE	RSONNEL (In	clude flight attendan	ts: continue on senara	te sheet	if nec	essar	v)	
PASSENGER(S) / OTHER PE	RSONNEL (In	clude flight attendan	ts; continue on separa	ite sheet				ri U
PASSENGER(S) / OTHER PE	RSONNEL (In	clude flight attendan	ts; continue on separa	nte sheet				tal rious ury nor ury Injury
PASSENGER(S) / OTHER PE	RSONNEL (In	clude flight attendan	its; continue on separa	ate sheet			<b>t</b>	Fatat Serious Injury Minor Injury No Injury Unknown
Name and Address First Name:				ate sheet		Crew Non-	Revenue Revenue Non- Occupant FAA	
Name and Address  First Name: Middle Initial:		City: State:	ZIP:	ate sheet		Crew Non-	Revenue Revenue Non- Occupant FAA	Fatat Serious Injury Minor Injury Injury No Injury
Name and Address  First Name: Middle Initial: Last Name:		City: State: Country:	ZIP:	ate sheet		Crew Non-	Revenue Revenue Non- Occupant FAA	
Name and Address  First Name:  Middle Initial:  Last Name:  First Name:		City: State: Country:	ZIP:	te sheet		Crew	Revenue  Revenue  Non- Occupant  FAA	
Name and Address  First Name: Middle Initial: Last Name:		City: State:	ZIP:	te sheet		Crew	Revenue  Revenue  Non- Occupant  FAA	
Name and Address  First Name: Middle Initial: Last Name:  First Name: Middle Initial: Last Name:		City: State: Country: City: State: Country:	ZIP:	ate sheet		Crew	Revenue  Revenue  Non- Occupant  FAA	
Name and Address  First Name: Middle Initial: Last Name:  Middle Initial: Last Name:  Middle Initial: Last Name:  First Name:  Middle Initial:		City:	ZIP:	ate sheet		Crew		
Name and Address  First Name:  Middle Initial: Last Name:  Middle Initial: Last Name:  First Name:		City: State: Country: City: State: Country: City: City:	ZIP:	ate sheet		Crew		
Name and Address  First Name: Middle Initial: Last Name:  First Name: Middle Initial: Last Name:  First Name:  Middle Initial: Last Name:  First Name:  Middle Initial: Last Name:		City: State: Country: City: State: Country: City: State: Country: City: State: Country:	ZIP:	ate sheet		Crew		
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NARRATIVE HISTORY OF FLIGHT (Please type or print in link)
Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State time and point of departure, intended destination, and services obtained.
See Attached Narratives
RECOMMENDATION (How could this accident/incident have been prevented?)
Operator/Owner Safety Recommendation
1. Only Ground Control should be controlling airport ground traffic. In this case, Tower retained control of an aircraft on the ground between two runways, and subsequently cleared that aircraft to taxi across a runway when there was an aircraft on the other side blocking the taxiway. There was insufficient clearance for the taxiing aircraft to clear the runway without striking the other aircraft. Only Ground Control, who should have clear situational awareness of all ground traffic, should be controlling ground traffic. For the record, this procedure—Tower retaining control of aircraft between runways—has been the standard procedure at Livermore Airport for at least the 10 years I've been flying here. This should change.
2. Ground Control and Tower Control must coordinate traffic with each other to ensure there are no conflicts,
3. ATC Controllers should be educated with respect to the visibility limitations experienced by pilots of aircraft with conventional (tailwheel) landing gear configurations. The pilot of a tailwheel aircraft often cannot see directly ahead of the aircraft and must do S-turns to see around the nose of the aircraft. Sometimes, as was the case here, nearness of the runway edge (or narrow taxiways, or parked aircraft, etc.) restrict these turns and further reduce the pilot's ability to see ahead. A video, or taxi time, or flight in a tailwheel aircraft might give the controllers better insight and appreciation for the visibility imitations faced by pilots of tailwheel aircraft.

ADDITIONAL I	NEORM	ATION (Please type or print in ink)	<del></del>	
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NTSB Accident/Incid WPR14LA025A	lent No.	Reviewed by NTSB Regional Office	Name of Investigator	Date Report Received
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## NARRATIVE: ARNOLD MOSTON PITTS N15TA TAXI ACCIDENT 20 OCT 2013

The morning of Sunday 10/20/13 was stress free. Woke up, felt good, had a cup of coffee, read the Sunday paper and headed out to LVK. The peninsula was overcast but the valley was clear and caim. I've accumulated over 60 hours in the Pitts and felt like I reached a point with my acrobatic skills that I wanted to learn more of what the Pitts was capable of. I hired Rich Perkins, flight instructor and owner of Attitude Aviation, to spend an hour in the air with me. We had a pre-flight discussion going over a few mechanical questions I had about the Pitts. We discussed the type of acrobatic maneuvers I typically fly. We discussed verbal and hand signals used to convey who had control of the airplane, and emergency procedures in general.

I went through the pre-flight procedure and everything checked out normal. We both strapped in. I went through the start up checklist and fired up. I received ATIS switched to ground and obtained clearance to 25R. The run up was normal with no anomalies. I called tower on 118.1 requested a 25R right hand departure and was instructed to hold short of 25R. I read back the instruction and held. We were cleared for takeoff and departed to the east. We flew to the practice area NE of Discovery Bay to practice. We went through a series of acrobatics and returned to LVK with adequate fuel reserve. After receiving ATIS I reported 1/2 mile north of Brushy Peak with Hotel. I was expecting to enter on a 2 mile base but instead was told to enter on a 4 mile final and to follow a Cirrus on a 1 mile final. I was approximately 2 miles out when I was cleared to land on 25R. My approach was a bit hot and landed long. The touch down was normal. As we rolled out the tower instructed me to turn left on Golf and hold short of 25L and remain on tower frequency. I read back the towers instruction, exited 25R on Golf and held for clearance to cross 25L. As we held short we watched an RV land on 25L and exit the active approximately 600' to our east. At the time I was thinking the RV was our traffic. After the RV exited 25L the tower came back and cleared me to cross 25L and then contact ground. Instinctively I looked east for traffic as well as west even though traffic was landing from the east. I looked in front but wasn't looking for an airplane. I then proceeded to cross 25L and drifted slightly to the right. My eyes were looking forward and down at the right side edge of pavement while I made a slight correction steering to left. Since I was taxiing relatively straight the nose of my airplane obstructed the view directly ahead of me. As I made a slight correction to the left the taxiway hold short line came into view. I must have been maybe 3/4 of way across the active. I turned my head to the left and was looking down at the hold short line to make sure ! cleared the active before contacting ground. As I barely crossed the hold short line just before applying the brakes we came in contact with the vertical stabilizer of the aircraft in front of us. The engine turned a few times and stopped. I shut the plane down and watched the Cessna in front of us with its engine still running. I sat there for a moment stunned. The Cessna made a radio call, and then Rich got on the mike and told tower we had just rear ended a Cessna. After a few seconds went by the tower came back and asked, "15TA have you cleared 25L?" The Cessna never shut down and Ground told him to taxi to parking. We left the Pitts in the location where it was shut down. Rich documented the damage to the Pitts and our relative position to the runway threshold. Personnel from Attitude Aviation came out in a golf cart to assist. After documenting the location of the Pitts upon striking the Cessna Rich and I pushed the Pitts into the run up area. A truck came out and towed the Pitts back to the south hanger. Rich and I met the pilot of the Cessna in Attitude's office. We apologized and discussed the sequence of events, who was on what frequency at what time.

In retrospect I know this accident was totally avoidable in so many ways. I failed to see and be seen. I could never have expected the pilot of the Cessna to see me. He would never have expected to be rear ended especially at a controlled airport just as I would never have expected the same. Upon entering or departing in the air or on the ground I always check for traffic on the runway, taxiways, in the pattern regardless if the airport is controlled on not. I'm not trying to push blame but it never crossed my mind to expect to be cleared such a short distance into another airplane. This accident has had a profound impression on me and has resulted in a definite change to my state of awareness not only when flying but in everything I do.

## NARRATIVE: JAMES R. PERKINS

At approximately 1400 PST on 20 Oct 2013, at Livermore Municipal Airport, Pitts N15TA taxied into the rear of Cessna N698SP. The propeller of the Pitts contacted the tail of the Cessna and stopped rotating about a second after contact. Both aircraft continued forward for several feet after contact and stopped. It is unclear whether the Cessna was pushed forward or taxied forward. There were no injuries. Damage to the Cessna was to the left elevator, rudder and vertical stabilizer. Damage to the Pitts appeared to be limited to the tips of the propeller. The Cessna taxied to transient parking under its own power. The Pitts was towed back to the FBO.

I was in the front seat of the Pitts. Arnold Moston occupied the rear seat as Pilot in Command. Arnie had rented the Pitts S-2C many times solo and was fully qualified in the aircraft. I am an experienced aerobatic pilot, and Arnie had asked me to give him an opinion on his current aerobatic skills and perhaps add some maneuvers to his personal aerobatic maneuver list.

There were no physiological or environmental factors which had any significant effect on the events of the day. I was rested and under no undue stress. The planned flight was routine. The weather was VFR, with clear skies, good visibility and light winds.

There were no equipment issues. There is one important aircraft design consideration regarding the Pitts Special S-2C which did contribute to the accident: Due to the fact that the Pitts is a tailwheel aircraft, with a very steep deck angle and wide nose, it is absolutely impossible for either cockpit occupant to see directly ahead of the aircraft during taxi. For this reason, the pilot usually executes S-turns during taxi to clear ahead of the aircraft. At normal taxi speeds, it can take 40'-100' to execute this clearing maneuver, depending on conditions and pilot technique. It should also be noted that the front seat occupant's ability to see around the nose during these clearing turns is much more limited than that of the rear seat occupant, due to the front seat occupant's close proximity to the very wide, very tall aircraft nose.

We took off from Livermore Municipal Airport, practiced some aerobatics northeast of Discovery Bay, CA and returned to Livermore Municipal Airport. Arnie landed long on Runway 25R and turned left at Taxiway Golf, about 4000' down the 5200' runway. Taxiway Golf also crosses the approach end of Runway 25L. Tower instructed us to "Turn left, taxiway Golf, hold short 25 Left." Arnie cleared Runway 25R, stopped short of 25L and completed the after landing checklist.

There was an experimental aircraft (an RV-6, I think) on final for Runway 25L, so it was obvious we were holding short of 25L for landing traffic. We held short of the runway and watched the aircraft land and turn off of Runway 25L on the taxiway *prior* to the taxiway we were holding on.

Immediately after the landing traffic turned off the runway, Livermore Tower cleared us to cross Runway 25L.

Unknown to us, a Cessna 172SP had landed on Runway 25L some time prior to the experimental and was still sitting on the other side of Runway 25L from us, on Taxiway Golf. They had cleared the runway, taxied just past the Hold Short Line and had been attempting to contact Livermore Ground for some time. (I got this information later from the CFI in the Cessna.)

The Cessna had been sitting on Taxiway Golf, across Runway 25L from us the whole time, since before we landed, but we were unable to see it, because we were on the centerline of Taxiway Golf, and the nose of the Pitts blocked the view of the Cessna completely.

Arnie began taxiing across Runway 25L.

While Arnie was crossing the approach end of Runway 25L, he angled slightly to the right, nearing the edge of the departure end of the runway. I thought he might be starting a clearing S-turn, but it appeared there was not sufficient room to do so without getting off the pavement, so I mentioned it, telling him he should move left. He did so. At this point in time, I had been looking down and to my right at the edge of the pavement. As I turned my head through the twelve o'clock position to look left, I saw the vertical fin of the Cessna just rising above the nose of the Pitts--and we hit the Cessna.

Both aircraft moved forward several feet. The Pitts prop stopped within a second. The Cessna was still running. Arnie shut off all the switches in the Pitts. After a few moments, smelling no fuel, we turned the master and avionics master back on and tuned to Livermore Ground frequency. We heard the Cessna tell Ground that they had been hit, but Ground did not answer. We made a transmission to Ground, telling them about the accident and asking for assistance, but they did not answer. Ground Control was busy and did talk to a couple of other aircraft. At this point, I made a transmission requesting "radio priority." Ground answered, and I told them what had happened and requested assistance from the FBO and the City Terminal. Though we were in plain view to Tower and Ground during this entire accident, Ground asked us if we were clear of the runway. I said, "Yes," and reiterated my request for assistance.

Ground asked the Cessna if they could taxi, and the Cessna answered, "Yes." Ground instructed the Cessna to taxi to parking. By the time I could get a transmission in, the Cessna had already powered up and was in motion. I don't think any further damage was incurred as the Cessna pulled away, but I also didn't like that Ground had one of the aircraft involved in the accident leave the scene before we could exchange information and take photos. I requested and received permission from Ground to speak to the Cessna, and told them where they could find us after they got their plane parked.

We had the Pitts towed to the FBO, and later met the CFI and student from the Cessna.

Lots of things, circumstances and/or people could have broken the accident chain leading to this event. If we hadn't been in a taildragger... If we had turned off at an earlier taxiway... If the Cessna had pulled further forward... If Ground had answered the Cessna on one of its earlier calls...et al. None the less, the bottom line is that we rear ended the Cessna.

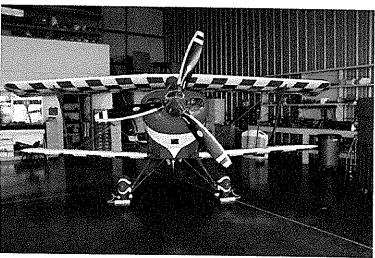
There are, however, a few items worth mentioning with regard to ATC.

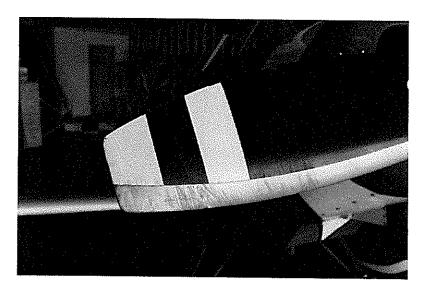
Livermore Tower cleared us to cross Runway 25L when, clearly visible to Tower, there was an aircraft blocking the taxiway on the other side of the runway. Also, there was insufficient room behind that aircraft for us to clear the runway without striking that aircraft.

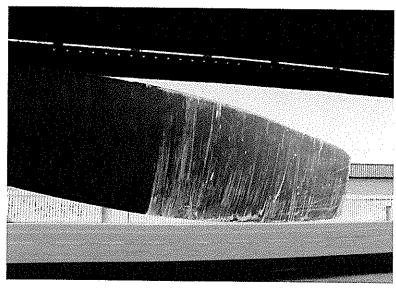
It appears that Livermore Ground Control was unaware of the Cessna blocking the taxiway, though the Cessna was in full view to Ground Control, and the mishap Cessna had made several transmissions to Ground.

Addendum: Yesterday (29 Oct 2013), while I was in the back seat of a Yak 52TD tailwheel aircraft, waiting to cross runway 25R at Livermore, the controller cleared us to cross the runway while there was an aircraft clearly blocking the taxiway on the other side of the runway! My Front Seater, the aircraft owner and PIC, accepted the clearance and started to cross the runway. I stopped him, then called Ground and declined the clearance to cross the active, noting that the taxiway was blocked by an aircraft. Déjà vu.















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