

Scaled Composites, LLC
Koehn Dry Lake, CA
October 31, 2015
DCA15MA019

**NATIONAL TRANSPORTATION SAFETY BOARD
WASHINGTON, D.C.**

ATTACHMENT 8

Timeline Of Events

3 Pages

Time	Event	Source
0630:00	KCFD helicopter 408 UH-1H (H408) (N408KC) preflight accomplished and on standby in Keene, CA for launch scheduled at 0700	KCFD Air Operations timeline
0704:00	KCFD Chief Cody advised KCFD H408 of delay in launch	KCFD Air Operations timeline
0840:00	KCFD Chief Cody advised KCFD H408 takeoff scheduled for 0845 to 0900	KCFD Air Operations timeline
0919:00	WK2/SS2 took off from MHV	MHV Incident Log
1007:18	"Release, release, release" announced	Joshua Approach Radar/Audio
1007:36	"Knock it off, knock it off, knock it off" announced	Joshua Approach Radar/Audio
1008:00	KCFD Chief Pendergrass text messaged KCFD H408 pilot that vehicle launched but "cut it out, problems with something, they're coming down".	KCFD Air Operations timeline
1008:59	Scaled Base asked E300 chase plane (N24GA) whether he had "a visual;" E300 replied "affirmative"	Joshua Approach Radar/Audio
1009:00	KCFD Chief Pendergrass text messaged KCFD H408 pilot: "Get ready"	KCFD Air Operations timeline
1010:06	E300 reported "one chute"	Joshua Approach Radar/Audio
1011:06	Scaled Base asked E300 for an update; E300 replied "still on chute, base, we're with the chute"	Joshua Approach Radar/Audio
1011:25	Scaled Base asked if the E300 had a visual on the vehicle; E300 replied "we had it a minute ago;" he reported its altitude was below the parachute and that "the vehicle is on the deck now."	Joshua Approach Radar/Audio
1011:45	E300 requested SAR forces respond to the area of Koehn Lake; "it's gonna be the just to the west side of the road that goes north of Koehn Lake." Scaled Base copied that transmission and stated they "we're working on that right now."	Joshua Approach Radar/Audio
1012:30	E300 declared himself the immediate on-scene commander and stated he had "one hour hang time."	Joshua Approach Radar/Audio
1014:00	Announcement to onlookers at MHV: "Today is a bad day. The spaceship should be here but it is not. There are no further details at this time."	Joshua Approach Radar/Audio
1014:31	Scaled Base reported "SAR forces are enroute. They have been notified."	Joshua Approach Radar/Audio
1015:00	E300 reported "And I did get a thumbs up from this chute."	Joshua Approach Radar/Audio
1015:25	Scaled Base asked for any evidence of a second parachute; E300 replied "negative."	Joshua Approach Radar/Audio
1018:00	KCFD Chief Pendergrass text messaged KCFD H408 pilot "launch, Kern 5"	KCFD Air Operations timeline
1018:02	1st photograph taken by crewmember of E300 chase plane showing survivor on the ground	NTSB external imagery factual report
1020:00	MHV airport personnel departed MHV enroute to crash site	MHV Incident Log
1021:00	Estimated coordinates of crash site were: N35 10 06, W117 53 09	MHV Incident Log

1023:00	KCFD H408 dispatched by KCFD ECC	KCFD Air Operations timeline
1027:49	Scaled Base confirmed that SAR forces were enroute via air and ground	Joshua Approach Radar/Audio
1027:53	E300 reported just making another pass and see "still getting thumbs up from the ground there"	Joshua Approach Radar/Audio
1030:00	H408 departed Keene for coordinates supplied by ECC. Radio contact established with ECC at 1036.	KCFD Air Operations timeline
1030:03	Scaled Base asked the E300 whether he had a location on the vehicle; E300 replied	Joshua Approach Radar/Audio
1033:19	E300 reported no visual on air or ground SAR forces	Joshua Approach Radar/Audio
1038:00	Rescue 1 returning to fire station (after transporting EMT to NTPS)	MHV Incident Log
1038:25	E300 reported an estimated 30 minutes of fuel remaining and no sign of air or ground SAR forces	Joshua Approach Radar/Audio
1039:43	Scaled Base reported a helo inbound from China Lake and asked E300 or WK2 to provide coordinates of the site	Joshua Approach Radar/Audio
1040:24	E300 reported position as on the "China Lake 196, 22 miles"; Joshua approach copied and reported "Mercy Air" northbound out of Mojave towards your position and should be forces coming in from China Lake as well"	Joshua Approach Radar/Audio
1041:00	National Test Pilot School UH-1N Huey (N212TP) "Tiger 1" departed MHV with EMT and NTPS doctor	MHV Incident Log
1041:25	UH-1H Huey "Helo 408 or Tiger 8" (beacon code 1255) appeared on radar > 10 miles to SW of accident site	Joshua Approach Radar/Audio
1045:33	NTPS Tiger 1 was 9.5 miles south of accident area	Joshua Approach Radar/Audio
1049:03	NTPS Tiger 1 made visual contact with E300 who led to the survivor's location	Joshua Approach Radar/Audio
1051:53	NTPS Tiger 1 landed at survivor's location	Joshua Approach Radar/Audio
1053:00	E300 reported that the main cabin was thought to be west of the location of the survivor	Joshua Approach Radar/Audio
1053:10	Scaled Base asked the E300 to guide the second helicopter to the site of the main cabin. E300 reported that the second helicopter had already landed and was near one of the tail pieces.	Joshua Approach Radar/Audio
1054:00	"Military helicopter" landed at crash site	MHV Incident Log
1056:00	One survivor identified; to be transported to Antelope Valley Hospital	MHV Incident Log
1056:00	H408 landed at site of wreckage, site cleared by rescuer	KCFD Air Operations timeline
1056:35	H408 landed at wreckage site	Joshua Approach Radar/Audio
1058:00	H408 repositioned to site of survivor. Hoist rescue crew from H408 assessed patient and requested Mercy Air 14 for transport	KCFD Air Operations timeline

1104:00	Main cabin found on Garlock/Red Rock Canyon Highway	MHV Incident Log
1104:58	E300 notified Tiger 1 that "...you may be able to help us... we saw two people eject from the aircraft so they may not be inside that cabin... we may need to look for somebody who didn't get a chute."	Joshua Approach Radar/Audio
1106:12	Mercy Air 14 seen on radar at 3000 ft. departing MHV	Joshua Approach Radar/Audio
1112:39	Mercy Air 14 three miles south of survivor site	Joshua Approach Radar/Audio
1113:12	NTPS Tiger 1 seen on radar at 2200 departing survivor site	Joshua Approach Radar/Audio
1115:00	Mercy Air 14 landed at survivor site.	KCFD Air Operations timeline
1115:01	Mercy Air 14 was in a "wide orbit" around survivor site to avoid other aircraft	Joshua Approach Radar/Audio
1116:25	Mercy Air 14 landed at survivor's location	Joshua Approach Radar/Audio
1123:00	Mercy Air 14 was enroute to Antelope Valley Hospital	Joshua Approach Radar/Audio
1134:00	KCFD H408 departed scene for Mojave Airport with one airport employee and hoist crew	KCFD Air Operations timeline
1153:00	Mercy Air 14 arrived at Antelope Valley Hospital	Survivor's medical records
1155:00	KCSO secured the scene	MHV Incident Log
1203:00	KCFD H408 arrived at MHV	MHV Incident Log
1213:00	Airport personnel arrived back at MHV	MHV Incident Log