

DOCKETED
USNRC2003 JAN 13 PM 2:49
14-May-02OFFICE OF THE SECRETARY
RULEMAKING AND
REGULATIONS STAFF

Table of all accidents relevant to Skull Valley transit (Skull Valley Type Events) in which pilot retained control and had enough time to avoid a specific site (Able to Avoid)			
	Date	Maneuvering	Damage
1	26-Dec-89	Early in his zoom, the pilot made a turn toward a relatively unoccupied area on the ground. The pilot made frequent corrections to his flight path to avoid populated areas. The pilot intentionally delayed ejection to further avoid populated areas in his flight path	impacted trees, landed in rice paddy, tanks landed in unpopulated area, no injuries or damage
2	20-Sep-90	made check turn just prior to ejection, confirmed no obstructions off nose.	Crashed in desert 10 miles east of Gila Bend, AZ
3	15-Jan-91	descended for an emergency recovery at airfield...decided to eject over an unpopulated area	none, unpopulated part of the Everglades
4	20-Feb-91	turned toward emergency base. Ensured area was clear before jettisoning tanks. Descended through weather to clear flight path before ejecting.	landed in farm field, may have been some claims for crop damage, none at time of report
5	7-May-91	stayed in right hand turn to avoid a radar site, confirmed aircraft heading toward a picnic area away from populated area before ejecting	on-base, no damage reported
6	13-Jan-92	turned away from the city...attempted to point away from population centers before ejecting	none reported
7	31-Aug-92	turned away from populated areas	trees and underbrush, two structures 150 yards away, minor damage
8	17-Dec-92	Turned toward airfield, then turned to avoid hunting lodge before ejecting.	on range, small brush fires
9	21-Apr-93	Turned toward airfield and away from apartments. Aircraft on taxiway (note this is Col Cosby's accident)	none reported, landed on Selfridge ANGB
10	11-Sep-93	turned toward emergency divert airfield initially, then toward home field, then toward St. Louis after engine failed (over 5.5 minutes) "West away from the populated area".	sparsely populated area, came to rest inside a wooded area
11	24-Feb-94	MP directed AC toward an uninhabited wooded area and safely ejected. Also stated: MP directed the AC toward a small ridge line and ejected	crashed in uninhabited wooded area. Environmental damage repaired.
12	21-Aug-95	the pilot cleared his flight path	none
13	7-Jun-96	Pilot dropped below clouds to visually clear his flight path, then turned away from inhabited farm sites toward a clear field	landed in a cornfield
14	11-Jul-96	Toward airfield, then turned away from more heavily populated areas to area of less density once he determined he couldn't make the landing	killed one, seriously injured another, destroyed 1 home, damaged another, 2 cars
15	15-May-95	turned toward unpopulated terrain	desert ranch land, "minimal" damage, small brush fire

16	24-Aug-98	Delayed action to jettison fuel tanks because flight path took him over population. Later: MP turned out towards the ocean and ejected over water once the aircraft was clear of any populated areas.	Crashed 1/4 mile off coast. No damage. Fuel tanks were jettisoned over uninhabitable mountainous terrain, no property damage.
17	3-Apr-90	turned toward controlled bailout area, then flew toward airfield and set up on base leg when he bailed out...engine fire, flew for approx 14 minutes before ejecting	no damage reported (166/07 from Kunsan), engine recovered in relatively good shape
18	7-Aug-90	configured for landing and turning onto final approach. Rolled out of turn before ejecting.	undeveloped, heavily wooded area
19	13-Jan-91	turned toward base	none, unpopulated desert in Southwest Asia
20	19-Mar-91	turned toward base for landing, flew for approximately 4-5 minutes before ejecting	none reported, in Southwest Asia near large sand dunes
21	18-Apr-91	zoomed and turned toward home base	Nat'l Forest Service Land, damaged unimproved road, destroyed a utility pole
22	17-Jul-91	turned toward Taegu AB after initial engine problems, then towards Pohang AB after determining weather not good & considering terrain @ Taegu. Turned for more favorable bailout conditions after engine failed	none, impacted in Sea of Japan
23	27-Nov-91	zoomed and turned toward land	impacted the water, near the mouth of the Alligator River
24	16-Dec-91	turned toward airport	none reported
25	24-Apr-92	turned toward airfield, crash landing...ground egress (no ejection)	none, hit 100' short of the runway
26	5-May-92	turned toward airfield and landed, ran off runway due to high thrust	none
27	1-Sep-92	towards an emergency landing airfield. Turned right toward Range 4 before ejecting (call from lead)	none
28	18-Sep-92	toward the base. Toward the controlled bailout area.	none
29	22-Oct-92	toward an airfield	"minimal"
30	27-Aug-93	turned toward an open area, then toward emergency airfield and landing (runway only 4,998' too short to stop)	ran off the runway into a landfill across the street
31	2-Feb-94	toward a small ridge line and ejected	uninhabited wooded area
32	7-Feb-94	toward nearest suitable emergency airfield	minimal, cattle grazing land
33	30-Mar-94	turned back to field, flew an emergency pattern, missed barrier engagement, tried to take off again, ran off runway, ejected	some damage to ground ILS (Instrument Landing System) antenna
34	20-Sep-94	turned and flew to home base	crashed in field, damage to crops, soil contamination
35	25-Oct-94	turned toward emergency field	public land near Bonneville Salt Flats
36	5-Feb-95	turned & climbed toward base	arid ranch land, no claim filed at the time of the report
37	21-Dec-95	turned toward emergency landing field (directed by flight lead)	minimal to State property
38	19-Mar-96	requested vector to airfield...stayed over range at flight lead's direction	none
39	3-Aug-96	toward airfield	uninhabited desert

40	21-Nov-96	recommended heading provided by ATC (Air Traffic Control) to uninhabited area	none reported
41	29-Jan-97	toward emergency airfield	none
42	4-Feb-97	toward emergency airfield	mud flats near Bonneville salt flats, none
43	21-Apr-97	zoomed, toward airfield	none, heavily forested swamp
44	8-Jan-98	toward nearest suitable runway	none, desert
45	22-Jul-98	toward airport	water
46	3-Sep-90	climbed after problem started	open desert, no damage
47	23-Oct-90	complied with CAPs, no mention of maneuvering other than zoom	hilly terrain, no structures, livestock or personal loss of life, <\$10k damage to crops
48	8-Jun-91	on approach to landing	undeveloped, partially wooded tract
49	31-May-92	turned toward uninhabited area	none, unpopulated desert
50	13-Jul-95	zoomed, glided at 230 knots	one civilian received minor injuries while rushing to the crash site, property damage "light"
51	12-May-97	No information given	hilly terrain, unpopulated area
52	22-Aug-97	"	landed in Gulf of Mexico
53	19-Feb-93	"	very little physical damage to the private property on which it landed
54	23-Feb-93	"	none, small uninhabited island in a lake
55	11-Aug-93	"	impacted in the water
56	9-Nov-93	"	approximately 6 acres of private prairie grass land burned, ground water contamination
57	1-Jul-94	"	arid land used for hunting. Minor burn damage
58	13-Jan-95	"	5 Nations Golf Course in Belgium, none reported
59	25-Jun-95	"	landed on top of a wooded hill on private property

NUCLEAR REGULATORY COMMISSION

Docket No. _____ Official Ex. No. 100

In the matter of _____

Staff _____ IDENTIFIED X

Applicant X RECEIVED X

Intervenor _____ REJECTED _____

Other _____ WITHDRAWN _____

DATE 5/11/04 Witness _____

Clerk [Signature]