

National Transportation Safety Committee

Aircraft Accident Report - Appendix

SILKAIR FLIGHT MI 185

BOEING B737-300

9V-TRF

MUSI RIVER, PALEMBANG, INDONESIA

19 DECEMBER 1997

Jakarta, 14 December 2000



Department of Communications
Republic of Indonesia

Appendix A

Transcript of the Last Portion of CVR Recording

(CVR time is FDR UTC time – 2 seconds)

INTRA-COCKPIT COMMUNICATION

TIME and SOURCE

CONTENT

0829:23 {25:29}
CAM-1 checked.

0829:24 {25:30}
CAM-2 checked, flaps?

0829:25 {25:31}
CAM-1 five degrees, green light.

0829:28 {25:34}
CAM-2 five green, rudder, aileron stab trim?

0829:29 {25:35}
CAM-1 zero, zero and four point seven units checked.

0829:35 {25:41}
CAM-2 zero zero four point seven checked, takeoff briefing.

0829:37 {25:43}
CAM-1 complete.

0829:38 {25:44}
CAM-2 it's complete to the line.

0829:40 {25:46}
CAM-1 okay.

0829:50 {25:56}
CAM ((sound of door opening)).

0829:51 {25:57}
CAM-1 all set.

0829:52 {25:58}
CAM-5 yeah just give me one one five seconds to put on the infant seatbelt you know.

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AIR-GROUND COMMUNICATION

TIME and SOURCE

CONTENT

INTRA-COCKPIT COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
0829:57 {26:03} CAM-1	never mind lah you can take quite some time you can take up to 3 seconds.
0829:59 {26:05} CAM-5	okay.
0830:00 {26:06} CAM-1	(sound of laugh) five seconds (sound of laugh) * * give me five seconds to put -.
0830:03 {26:09} CAM	((sound of door closing)).

AIR-GROUND COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
>0830:44 {26:50} GND	Silk Air one eight five continue taxi on alpha contact tower one one eight point seven five.
>0830:48 {26:54} RDO-2	one one eight seven five Silk Air one eight five.
>0831:34 {27:40} RDO-2	Tower selamat sore Silk Air one eight five on alpha.
>0831:38 {27:44} TWR	Silk Air one eight five number two for departure two five right.
>0831:41 {27:47} RDO-2	Silk Air one eight five.
>0834:00 {30:06} TWR	Silk Air one eight five line up and wait two five right.
>0834:03 {30:09} RDO-2	line up and wait Silk Air one eight five.

INTRA-COCKPIT COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
0834:06 {30:12} CAM-1	sit the girls thanks, below the line.
0834:09 {30:15} PA-2	cabin crew take off positions please.
0834:17 {30:23} CAM-2	cabin announcement complete, engine start switches?
0834:20 {30:26} CAM-1	on.
0834:21 {30:27} CAM-2	transponder?
0834:22 {30:28} CAM-1	TA only.
0834:23 {30:29} CAM-2	strobe lights?
0834:25 {30:31} CAM-1	on.
0834:26 {30:32} CAM-2	holding at takeoff clearance.
0834:28 {30:34} CAM-1	thank you.
0835:22 {31:28} CAM-1	*.
0835:25 {31:31} CAM-2	sorry?

AIR-GROUND COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
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INTRA-COCKPIT COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
0835:28 {31:34} CAM-1	this guy is also going papa lima bravo.
0835:30 {31:36} CAM-2	yeah.
0835:32 {31:38} CAM-1	Sempati is turning right.
0835:37 {31:43} CAM-1	we're waiting for him to cross before he can let us go.
0835:40 {31:46} CAM-2	yeah.
0835:55 {32:01} CAM-2	they turned around that triple seven fast.
0835:57 {32:03} CAM-1	yeah.
0835:59 {32:05} CAM-2	that SQ one.
>0836:30 {32:38} CAM-1	come on.
0836:44 {32:50} CAM-2	takeoff clearance.

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AIR-GROUND COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
>0836:35 {32:41} TWR	Silk Air one eight five cancel SID after airborne turn right direct papa lima bravo cleared for takeoff.
>0836:41 {32:47} RDO-2	airborne right turn papa lima bravo cleared for takeoff Silk Air one eight five.

INTRA-COCKPIT COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
0836:45 CAM-1	{32:51} obtained.
0836:47 CAM-2	{32:53} before takeoff checklist's complete.
0836:48 CAM	{32:54} ((sound of increasing engine noise)).
0836:50 CAM-1	{32:56} ninety one five.
0836:55 CAM-2	{33:01} ninety one five thrust is set.
0836:58 CAM-2	{33:04} eighty knots.
0836:59 CAM-1	{33:05} my control.
0837:00 CAM-2	{33:06} you have control.
0837:12 CAM-2	{33:18} V-one rotate.
0837:14 CAM-2	{33:20} V-two.
0837:17 CAM-2	{33:23} positive climb.
0837:18 CAM-1	{33:24} gear up thanks.

AIR-GROUND COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
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INTRA-COCKPIT COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
0837:28 {33:34} CAM-1	heading select right turn three three zero yeah.
0837:32 {33:38} CAM-2	it's all clear.
0837:33 {33:39} CAM-1	okay.
0837:36 {33:42} CAM-1	N-one, two ten, flaps one.

0838:10 {34:16}
CAM-1 flaps up.

AIR-GROUND COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
>0837:48 {33:54} TWR	Silk Air one eight five contact departure one one nine seven five.
>0837:52 {33:58} RDO-2	one one nine seven five Silk Air one eight five terima kasih pak.
>0837:55 {34:01} TWR	*.
>0837:58 {34:04} RDO-2	ah arrival Silk Air one eight five airborne one thousand six hundred.
>0838:09 {34:14} RDO-2	Jakarta approach Silk Air one eight five.
>0838:12 {34:18} DEP	Silk Air one eight five identified on departure climb to three five zero turn right heading three four zero report passing one five zero.

INTRA-COCKPIT COMMUNICATION

TIME and
SOURCE

CONTENT

0838:27 {34:33}
CAM-2 flaps are up.

0838:32 {34:38}
CAM-1 V-Nav thanks.

0838:47 {34:53}
CAM-2 TCAS twenty.

0838:48 {34:54}
CAM-1 okay it's set.

0839:15 {35:21}
CAM-1 ((sound of humming)).

0839:21 {35:27}
CAM-1 request high speed thanks.

0839:30 {35:36}
CAM-1 okay delete th- start switches off, seatbelt sign off, after
takeoff checklist thanks.

AIR-GROUND COMMUNICATION

TIME and
SOURCE

CONTENT

>0838:21 {34:27}
RDO-2 climb three five zero right turn heading three four zero Silk
Air one eight five roger.

>0839:24 {35:30}
RDO-2 Silk Air one eight five request high speed climb.

>0839:27 {35:33}
DEP Silk Air one eight five approved.

>0839:29 {35:35}
RDO-2 thank you.

INTRA-COCKPIT COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
0839:43 {35:49} CAM-2	transponder TA-RA twenty miles, air-con and pres is set climbing start switches off, landing gear up and off, flaps up no lights, landing lights on until ten thousand, fasten belt's off, after takeoff complete.
0839:56 {36:02} CAM-1	thank you.
0840:50 {36:56} CAM-1	V-Nav heading select.
0840:51 {36:57} CAM-2	checks.
0840:52 {36:58} CAM-1	auto-pilot A engaged.
0840:59 {37:05} CAM-1	we probably get direct Pardi eh probably.
0841:31 {37:37} CAM-1	ten thousand checked one zero one three and ah.
0841:38 {37:44} CAM-2	set.
0841:53 {37:59} CAM-1	forty miles.

AIR-GROUND COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
>0841:15 {37:21} DEP	Silk Air one eight five take up heading three three zero.
>0841:20 {37:26} RDO-2	heading three three zero Silk Air one eight five.

INTRA-COCKPIT COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
0843:20 {39:26} CAM-1	*
0843:21 {39:27} CAM-2	yeah.
0843:22 {39:28} CAM-1	* for the next two days *
0843:40 {39:46} CAM-1	I'll be off here.
0844:05 {40:11} CAM-2	want direct Pardi.
0844:06 {40:12} CAM-1	huh.

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AIR-GROUND COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
>0843:35 {39:41} RDO-2	Silk Air one eight five pass one five zero.
>0843:38 {39:44} DEP	control one two four three five.
>0843:43 {39:49} DEP	Silk Air one eight five contact one two four three five.
>0843:46 {39:52} RDO-2	twenty four three five Silk Air one eight five.
>0843:53 {40:00} RDO-2	ah Jakarta control Silk Air one eight five climbing three five zero.
>0844:00 {40:06} CTRL	Silk Air one eight five maintain heading climb three five zero report passing two four zero.

INTRA-COCKPIT COMMUNICATION

TIME and
SOURCE CONTENT

0844:06 {40:12}
CAM-2 direct Pardi.

0844:10 {40:16}
CAM-1 call two four zero.

0844:29 {40:35}
CAM-1 I'll be off the air for a while.

AIR-GROUND COMMUNICATION

TIME and
SOURCE CONTENT

>0844:10 {40:17}
RDO-2 flight level three five zero wilco Silk Air one eight five
 request direct Pardi.

>0844:15 {40:21}
CTRL all right stand-by.

INTRA-COCKPIT COMMUNICATION

**TIME and
SOURCE**

CONTENT

0844:37 {40:43}
PA-1 good afternoon ladies and gentleman this is your Captain my name is Tsu Wai Ming on the flight deck this afternoon with me is first officer Duncan Ward we'd like to welcome you aboard and ah we are now climbing through nineteen thousand feet we'll be cruising today at thirty five thousand heading towards the north west tracking initially towards the eastern cost of Sumatra towards the town of Palembang before turning right towards Singapore flight time one hour twenty minutes you can expect ah to arrive at Singapore at about six o'clock in the evening Singapore time which is one hour ahead of Jakarta time, time in Singapore is now four forty five in the afternoon this is about five minutes ahead of schedule. weather conditions clear skies out of Jakarta very hot afternoon and at the moment we are still in good weather however toward Singapore we can expect a bit of showers thunderstorm towards the southern part of Singapore arrival at Singapore should be fine with a temperature of about twenty eight degrees Celsius the seatbelt sign is now off feel free to move around the cabin however while seated for your own safety have your seatbelt fastened sit back and relax enjoy the services provided today on Silk Air one eight five and I'll get back to you just before our descent into Singapore with a updated weather forecast thank you.

0846:04 {42:10}
CAM-1 I'm back with you.

0846:05 {42:11}
CAM-2 okay.

AIR-GROUND COMMUNICATION

**TIME and
SOURCE**

CONTENT

>0847:01 {43:08}
RDO-2 Silk Air one eight five passing two four zero.

INTRA-COCKPIT COMMUNICATION

TIME and SOURCE **CONTENT**

0847:50 {43:56}
CAM-1 *.

0847:52 {43:58}
CAM-5 * would you like to have some sandwich.

0847:55 {44:01}
CAM-1 drinks ah.

0847:56 {44:02}
CAM-5 *.

AIR-GROUND COMMUNICATION

TIME and SOURCE **CONTENT**

>0847:07 {43:13}
CTRL Silk Air one eight five contact Jakarta upper one three two decimal seven.

>0847:13 {43:19}
RDO-2 one three two seven Silk Air one eight five.

>0847:21 {43:28}
RDO-2 Jakarta Silk Air one eight seven climbing passing two five five two four five correction.

>0847:30 {43:36}
CTRH Silk Air one eight five confirm.

>0847:31 {43:38}
RDO-2 affirm Silk Air one eight five climbing three five zero requesting direct Pardi.

>0847:38 {43:44}
CTRH one eight five stand-by direct Pardi direct papa lima bravo report three five zero.

>0847:43 {43:49}
RDO-2 direct Palembang wilco Silk Air one eight five.

INTRA-COCKPIT COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
0847:57 {44:03} CAM-1	tau hueh chui. ((soya drink))
0847:57 {44:03} CAM-5	tau hueh chui.
0847:59 {44:05} CAM-2	I'll have a ice lemon tea.
0848:00 {44:06} CAM-5	ice lemon tea do you want the sandwich too.
0848:03 {44:09} CAM-2	what kind.
0848:04 {44:10} CAM-5	we have egg mayonnaise and chicken *.
0848:08 {44:14} CAM-2	just a couple thanks nice clear day.
0848:12 {44:18} CAM	((sound of door closing)).
0848:16 {44:22} CAM-1	yeah.
0848:33 {44:39} CAM-1	((sound of singing)).
0848:49 {44:55} CAM-1	some water you want?
0848:51 {44:57} CAM-2	ah fine thanks.

AIR-GROUND COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
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INTRA-COCKPIT COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
0849:48 {45:54} CAM-1	just go level change and get up.
0849:50 {45:56} CAM-2	yup.
0849:51 {45:57} CAM-1	so we can go direct Pardi.
0850:17 {46:23} CAM-2	thirty for thirty five.
0850:52 {46:58} CAM-1	on speaker.
0852:18 {48:24} CAM-1	a thousand to three five zero.
0852:40 {48:46} CAM-1	*
0852:49 {48:55} CAM	((sound of altitude alert tone)).
0853:08 {49:14} CAM-1	*

AIR-GROUND COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
>0853:15 {49:22} RDO-2	Silk Air one eight five maintaining three five zero.
>0853:20 {49:26} CTRH	silk one eight five maintain three five zero cleared direct to Pardi report abeam papa lima bravo.
>0853:25 {49:31} RDO-2	three five zero direct Pardi wilco Silk Air one eight five.

INTRA-COCKPIT COMMUNICATION

**TIME and
SOURCE**

CONTENT

0853:51 {49:57}
CAM-1 that's him behind us.

0853:52 {49:58}
CAM-2 yup.

0853:53 {49:59}
CAM-1 very fast.

0857:25 {53:31}
CAM-1 he'll be ahead of us arriving in Singapore.

0857:28 {53:34}
CAM-2 yeah.

0857:28 {53:34}
CAM-1 he is he is speeding, shit.

0857:35 {53:41}
CAM-1 at least point eight *.

0857:52 {53:58}
CAM-2 he'll be above the weather as well.

0900:48 {56:54}
CAM ((sound of door opening)).

0900:51 {56:57}
CAM-5 tau huey chui.

0900:56 {57:02}
CAM-1 thanks.

0901:01 {57:07}
CAM-5 I was so busy I keep two pieces of sandwich for him then
this coming in as well (sound of laugh).

AIR-GROUND COMMUNICATION

**TIME and
SOURCE**

CONTENT

INTRA-COCKPIT COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
0901:12 {57:18} CAM	((sound of door closing)).
0904:09 {00:15} CAM	((sound of rustling papers)).
0904:55 {01:01} CAM-1	go back for a while, finish your plate.
0904:56 {01:02} CAM-2	I am.
0905:00 {01:06} CAM-1	some water.
0905:01 {01:07} CAM-	((sound of several metallic snap)).
0905:03 {01:09} CAM	((sound of snap)).
0905:05 {01:11} CAM-2	no thanks.
0905:13.6 {01:19.6} C	(end of recording)

AIR-GROUND COMMUNICATION

<u>TIME and SOURCE</u>	<u>CONTENT</u>
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