

AirAsia	LOAD AND TRIM SHEET																																																
MODEL A320-214/-216		EFFECTIVITY ALL IAA aircraft with MTOW 73.5 T						DOCUMENT NO: LTS-322-004																																									
CONFIG 180LY								REVISION DATE: U/ .MAY.2012		REV: C																																							
A/C REGN: P K AXC		FLIGHT DATE: 28-Dec-14		FLIGHT NO: QZ 8501		FROM: SUB		TO: SIN		COCKPIT CREW NO: 2		CABIN CREW NO: 4																																					
DOW/DOI		WEIGHT 42,880		INDEX 53		MAX WEIGHT FOR		ZERO FUEL 62,500		TAKE OFF		LANDING 66,000																																					
Adjustment 1		+				TAKE-OFF FUEL WEIGHT		+		8,296		TRIP FUEL+ 5,121																																					
Adjustment 2		+				MAX ALLOWED T.O.W. LOWEST		= a		b		c																																					
ADJUSTED DOW/DOI		= 42,880		53		OF a,b, OR c.		= 70,796		73,500		71,121																																					
TAKE-OFF FUEL WEIGHT		+ 8,296		-3		OPERATING WEIGHT		-		51,176																																							
OPERATING WEIGHT		= 51,176		50		ALLOWED TRAFFIC LOAD		=		19,620																																							
Pax		Pax No.		Wt/pax		PAX WEIGHT		BGE (Kg)		CGO (kg)		HOLD																																					
Adult		140		75 Kg		10,500		1,258		0		H1																																					
Child		17		40 Kg		680		0		0		H4																																					
Infant		1		10 Kg		10		0		0		H5																																					
TOTAL WEIGHT (Kg)				11,190		1,258		0		• PAX: 140		17 1 = 158																																					
TOTAL TRAFFIC LOAD (PAX+BGE+CGO) (Kg)				12,448						• PAD: 0		= 0																																					
INDEX CALCULATION TABLE																																																	
DESCRIPTION				WEIGHT (Kg)		INDEX																																											
ADJUSTED DOW/DOI				42,880		(-) (+)																																											
CABIN OA 51 (60)						-25		53																																									
CABIN OB 52 (60)				+ 11,190				4																																									
CABIN OC 54 (60)								33																																									
CARGO HOLD 1 (Max 3402Kg)				+ 0		0																																											
CARGO HOLD 3 (Max 2426Kg)				+ 1,258				5																																									
CARGO HOLD 4 (Max 2110Kg)				+ 0				0																																									
CARGO HOLD 5 (Max 1497Kg)				+ 0				0																																									
INDEX SUB-TOTAL						-25		95		ALLOWED TRAFFIC LOAD				19,620																																			
ZFW/ZFI (Max 62500Kg)				= 55,328		=		70		TOTAL TRAFFIC LOAD				12,448																																			
TAKE-OFF FUEL WEIGHT				+ 8,296		=		-3		UNDERLOAD BEFORE LMC				= 7,172																																			
TOW/TOI (Max 73500Kg)				= 63,624		=		67		LAST MINUTE CHANGE																																							
TRIP FUEL				- 5,121						SPECIFICATION				CL/Cpt +/- WEIGHT																																			
LANDING WT (Max 66000Kg)				= 58,503						LMC TOTAL																																							
<table border="1"> <thead> <tr> <th colspan="4">ZFW</th> </tr> <tr> <th colspan="2">WEIGHT (Kg x 1000)</th> <th colspan="2">CG % MAC</th> </tr> </thead> <tbody> <tr> <td>55</td> <td>3</td> <td colspan="2">33.6</td> </tr> <tr> <th colspan="4">TAKE OFF</th> </tr> <tr> <th colspan="2">WEIGHT (Kg x 1000)</th> <th colspan="2">CG % MAC</th> </tr> <tr> <td>63</td> <td>6</td> <td colspan="2">31.4</td> </tr> <tr> <th colspan="4">STABILIZER TRIM SETTING:</th> </tr> <tr> <th colspan="2">% MAC:</th> <th colspan="2">PITCH TRIM:</th> </tr> <tr> <td colspan="2">31.4</td> <td colspan="2">-0.7 DN</td> </tr> </tbody> </table>														ZFW				WEIGHT (Kg x 1000)		CG % MAC		55	3	33.6		TAKE OFF				WEIGHT (Kg x 1000)		CG % MAC		63	6	31.4		STABILIZER TRIM SETTING:				% MAC:		PITCH TRIM:		31.4		-0.7 DN	
ZFW																																																	
WEIGHT (Kg x 1000)		CG % MAC																																															
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% MAC:		PITCH TRIM:																																															
31.4		-0.7 DN																																															
<p>CAUTION: WHEN THE T.O CG IS LOWER THAN 27% MAC THE BASIC PERFORMANCE MUST BE CORRECTED.</p> <ul style="list-style-type: none"> - T.O: Make CG correction or use appropriate RTOW chart - LDG: Make CG correction on LDG speed and distance <p>I, hereby, certify that this aircraft has been loaded in accordance with the instruction of AirAsia procedure in pursuant to the authority requirements.</p> <p>Total Passengers (Incl. Infant) 158 <i>5 = 158 + 1 PAD</i></p> <p>Prepared by: IPUTU HENDRA <i>[Signature]</i></p> <p>Approved by: Capt. IRIYANTO <i>[Signature]</i></p>																																																	

A320 FUEL UPLIFT RECORD

S/NO: B 085789 C

REFUEL CARRIED OUT

A/C REGN.	DATE (LOCAL)	STATION	FLIGHT NO.	A/C TAKE-OFF WT +	MIN. SECTOR FUEL +		
PK-411	28 DEC 19	SUB	Q22801	64825	7725		
			TANK 1	CWT			
ARRIVAL FUEL (GAUGE)			3600	20	TOTAL		
REFUELLER (UPLIFT / DEFUEL)			1220	LITRES X 0.791	7510		
DEPARTURE FUEL (CALCULATION)				SPECIFIC GRAVITY			
DEPARTURE FUEL (GAUGE)				ADD ARRIVAL FUEL (G) TO BOWSER UPLIFT			
DEVIATION BETWEEN DEPARTURE FUEL FROM "CALCULATION" WITH FROM "GAUGE"			4210	20	8505		
					1470		
					055		

PIC / LAH Name: *Pryanto*

Sign & Lic. No.: *4030*

TRANSIT MAINTENANCE RELEASE
(only performed & filled when the airworthy status for any reason is invalid during transit)

LAH Name :

Sign & Stamp :

I HEREBY CERTIFY THAT THIS AIRCRAFT HAS BEEN MAINTAINED IN ACCORDANCE WITH THE REQUIREMENT OF CIVIL AVIATION SAFETY REGULATION FOR THE TIME BEING IN FORCE WHICH DECLARED THAT THE AIRCRAFT IS IN AIRWORTHY CONDITION AND SAFE FOR FLIGHT



FLIGHT DISPATCH RELEASE

1. AIRCRAFT IDENTIFICATION

Aircraft Reg. **PKAXC**
 Aircraft Type : A320-200

2. FLIGHT DOCUMENT

ATC Flight Plan	<input checked="" type="checkbox"/>
Operational Flight Plan	<input checked="" type="checkbox"/>
Voyage Report	<input checked="" type="checkbox"/>
T/O, Landing data form	<input checked="" type="checkbox"/>
GENDEC	<input checked="" type="checkbox"/>
NOTAM	<input checked="" type="checkbox"/>
W/X Report	<input checked="" type="checkbox"/>
Flight Approval (*if required)	<input checked="" type="checkbox"/>
Aircraft RVSM Approved	<input checked="" type="checkbox"/>
Security Receipt	<input checked="" type="checkbox"/>
Passenger Manifest	<input checked="" type="checkbox"/>
Cargo Manifest	<input checked="" type="checkbox"/>

3. AIRCRAFT DOCUMENTATION

Operation Specification	<input checked="" type="checkbox"/>
Enroute Chart	<input checked="" type="checkbox"/>
Approach Chart	<input checked="" type="checkbox"/>
Runway Analysis	<input checked="" type="checkbox"/>
Normal Checklist	<input checked="" type="checkbox"/>
Quick Reference Handbook	<input checked="" type="checkbox"/>
Minimum Equipment List	<input checked="" type="checkbox"/>
Certificate of Airworthiness	<input checked="" type="checkbox"/>
Certificate of Registration	<input checked="" type="checkbox"/>
Radio Permit	<input checked="" type="checkbox"/>
Company Operation Manual	<input checked="" type="checkbox"/>
Maintenance Record 1 & 2	<input checked="" type="checkbox"/>
FCOM 1 & 2	<input checked="" type="checkbox"/>
Certificate Weight and Balance	<input checked="" type="checkbox"/>
Emergency Respon Manual	<input checked="" type="checkbox"/>
Security Program and Manual	<input checked="" type="checkbox"/>

4. FLIGHT CREW DOCUMENT

Licence
 Passport

FLIGHT CREW MEMBER	
Pilot in Command	IRIYANTO
FO	REMI EMMANUEL, PLESEL
FO	
EOB	SAIFUL RAKHMAD
Flight Attendant/Inst.	
Flight Attendant / P1	SETIAWATI, WANTI
Flight Attendant / P2	DESANO, OSCAR
Flight Attendant / P3	PRAMBUDI, WISMOYO ARI
Flight Attendant / P4	HAIDAR FAUZI, KHATRUNISA
SNY	
SNY	
SNY	

FLT NO / IDENTIFY	ROUTE SEGMENT		ALTERNATE AIRPORT		TIME (UTC)		EST PAX	EST CGO	FUEL SUPPLY			TYPE OF FLIGHT	FLIGHT RULES	REMARKS
	STATION / AIRPORT	LOCATOR IDENTIFY	1st	2nd	Departure	Arrival			Trip	MSF	ADD FUEL			
AWQ 8501	Departure	WARR	WMMKJ		22:20		180	0	5,121	7,725	-	S	I	Fuel base on Kg
	Destination	WSSS				0:30								
AWQ 663	Departure	WSSS	WIII		1:00		180	1,600	4,664	8,887	2,000	S	I	Fuel base on Kg
	Destination	WARS				3:05								
AWQ 662	Departure	WARS	WMMKJ		3:40		180	1,000	4,851	7,473	-	S	I	Fuel base on Kg
	Destination	WSSS				5:45								
AWQ 8502	Departure	WSSS	WADD		6:10		161	2,000	5,266	9,081	4,000	S	I	Fuel base on Kg
	Destination	WARR				8:20								

Date of Flight	28-Dec-14	Release By	SAEPULAMIN	Pilot in Command Acceptance
Time	03.00 LT	FOO Lic. No.	2160	IRIYANTO
Place of Release	SUB	Signature :		

AWQ8501 | SUB/WARR - SIN/WSSS | ALTN:JHB/WMKJ | A320/AXC - KGS - PF/ 4.4% |
 CORTE/ R1 | FMGS RTE/WARRWSSS01 | CRZ/CI010 | DISPATCHER IAA102033 |
 REF 77314 - COMPUTED AT 14.56Z FOR ETD 22.20Z 27/12/14
 - PLAN VALID UNTIL 28/12/14 04.20Z

WARR RWY-28 RAMPY2A RAMPY M635 SURGA LAVAX1B RWY-20C WSSS

WARR/FL360 SUMDI/FL380

ESAD : 0796 W/C : P018 TTL DIST : 0832 EET : 02:01

	PLAN	MAX		TIME	FUEL
PAX 180	14220	180	AB	02:01	5121
CARGO WT	0		CONST RES	00:08	307
PAYLOAD	14220		HOLD RES	00:30	1157
Z F WT	57100	62500	BC	00:14	631
NET FUEL	7725		ADDITIONAL	00:03	104
T O WT	64825	73500	MANDATORY TANKERING	00:00	0
BURN OFF	5121				
LDG WT	59704	66000	MIN. SECTOR FUEL	02:56	7725
ARR FUEL	2604				
			FUEL PADDING	00:00	0
			ECONOMIC TANKERING	00:10	405
FUEL PRICE RATIO	: 1.16		TAXI		104
TANKERING	: NO				
ZFW CHG M1000 KGS BURN LESS	63 KGS		BLOCK FUEL	02:56	7829
ZFW CHG P1000 KGS BURN MORE	63 KGS				
			EXTRA	.....	.....
FL	DIST	W/C	TIME	FUEL	
2ND 360	0832	P016	02:01	5145	ADJUSTED BLOCK FUEL
3RD 340	0832	P012	02:03	5223	
			DIVN		1788
			DIVN RDG		.....

TAKEOFF ALTN : NOT REQD
 FEA : NOT APPLICABLE
 ETOPS ALTN : NON ETOPS

ALTN	W/C	DIST	FL	TIME	FUEL	MDF
WMKJ	M008	0057	F060	00.14	00631	01788
WMKK	P014	0256	F220	00.47	02007
WIMM	P014	0367	F240	01.03	02637
WIBB	P011	0180	F200	00.35	01508

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|AWQ663  | SIN/WSSS - SRG/WARS | ALTN:CGK/WIII | A320/AXC - KGS - PF/ 4.4% |
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|CORTE/R55| FMGS RTE/WSSSWARS55 | CRZ/CI010      | DISPATCHER IAA102033      |
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REF 77358 - COMPUTED AT 18.16Z FOR ETD 01.00Z 28/12/14
 - PLAN VALID UNTIL 28/12/14 07.00Z

WSSS RWY-20C VENPA1B SURGA M635 RAFIS A576S ANY DCT RWY-13 WARS

WSSS/FL350

ESAD : 0690			W/C : M013		TTL DIST : 0668		EET : 01:42	
	PLAN	MAX			TIME	FUEL		
PAX 180	15180	180	AB		01:42	4664	.....
CARGO WT	1600		CONST RES		00:06	280		
PAYLOAD	16780		HOLD RES		00:30	1229		
Z F WT	59660	62500	BC		00:53	2315		
NET FUEL	10887		ADDITIONAL		00:09	399		
T O WT	70547	73500	MANDATORY TANKERING		00:00	0		
BURN OFF	4664							
LDG WT	65883	66000	MIN. SECTOR FUEL		03:20	8887		
ARR FUEL	6223		FUEL PADDING		00:00	0		
			ECONOMIC TANKERING		00:46	2000		
FUEL PRICE RATIO : 0.84			TAXI			230	.....
TANKERING : YES			BLOCK FUEL		04:06	11117		
ZFW CHG M1000 KGS BURN LESS	52 KGS		EXTRA		.....	.....
ZFW CHG P1000 KGS BURN MORE	52 KGS		ADJUSTED BLOCK FUEL		.....	.....
FL	DIST	W/C	TIME	FUEL				
2ND 330	0668	M012	01:42	4679				
3RD 310	0668	M011	01:42	4741				
			DIVN			3544	.....
			DIVN RDG				.....

TAKEOFF ALTN : NOT REQD
 FEA : NOT APPLICABLE
 ETOPS ALTN : NON ETOPS

ALTN	W/C	DIST	FL	TIME	FUEL	MDF
WIII	P018	0304	F260	00.53	02315	03544
WARR	M016	0192	F210	00.39	01744	.....

AWQ662 | SRG/WARS - SIN/WSSS | ALTN:JHB/WMKJ | A320/AXC - KGS - PF/ 4.4%
 CORTE/ R1 | FMGS RTE/WARSWSSS01 | CRZ/CI010 | DISPATCHER IAA102033

REF 77362 - COMPUTED AT 18.19Z FOR ETD 03.40Z 28/12/14
 - PLAN VALID UNTIL 28/12/14 09.40Z

WARS RWY-31 PURWO3E PURWO W17N ANY A576S RAFIS M635 SURGA LAVAX1L
 RWY-20R WSSS

WARS/FL360

ESAD : 0736 W/C : P013 TTL DIST : 0760 EET : 01:52

	PLAN	MAX		TIME	FUEL
PAX 180	14520	180	AB	01:52	4851
CARGO WT	1000		CONST RES	00.07	291
PAYLOAD	15520		HOLD RES	00:30	1179
Z F WT	58400	62500	BC	00:14	641
NET FUEL	7473		ADDITIONAL	00:03	122
T O WT	65873	73500	MANDATORY TANKERING	00.00	0
BURN OFF	4851				
LDG WT	61022	66000	MIN. SECTOR FUEL	02:46	7473
ARR FUEL	2622		FUEL PADDING	00:00	0
			ECONOMIC TANKERING	00.10	389
FUEL PRICE RATIO : 1.19			TAXI		104
TANKERING : NO			BLOCK FUEL	02:46	7577
ZFW CHG M1000 KGS BURN LESS	59 KGS		EXTRA	.....	.....
ZFW CHG P1000 KGS BURN MORE	59 KGS		ADJUSTED BLOCK FUEL	.....	.....
FL	DIST	W/C	TIME	FUEL	
2ND 340	0760	P012	01:53	4883	
3RD 320	0760	P011	01:54	4961	
			DIVN		1820
			DIVN RDG		.....

TAKEOFF ALTN : NOT REQD
 FEA : NOT APPLICABLE
 ETOPS ALTN : NON ETOPS

ALTN	W/C	DIST	FL	TIME	FUEL	MDF
WMKJ	M013	0057	F060	00.14	00641	01820
WMKK	P004	0256	F220	00.48	02058
WIMM	P006	0367	F240	01.03	02708
WIBB	P002	0180	F200	00.35	01545

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|AWQ8502 | SIN/WSSS - SUB/WARR | ALTN:DPS/WADD | A320/AXC - KGS - PF/ 4.4% |
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|CORTE/ R3| FMGS RTE/WSSSWARR03 | CRZ/CI010      | DISPATCHER IAA102033      |
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REF 77367 - COMPUTED AT 18.24Z FOR ETD 06.10Z 28/12/14
          - PLAN VALID UNTIL 28/12/14 12.10Z
    
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WSSS RWY-02C ANI5A ANITO B470 PKP L511 SBR DCT RWY-28 WARR

WSSS/FL350

ESAD : 0794		W/C : M011		TTL DIST : 0773		EET : 01:55	
	PLAN	MAX			TIME	FUEL	
| PAX 161	13295	180	| AB		01:55	5266	.....
| CARGO WT	2000		| CONST RES		00:07	316	
| PAYLOAD	15295		| HOLD RES		00:30	1233	
| Z F WT	58175	62500	| BC		00:46	2007	
| NET FUEL	13081		| ADDITIONAL		00:06	259	
| T O WT	71256	73500	| MANDATORY TANKERING		00:00	0	
| BURN OFF	5266						
| LDG WT	65990	66000	MIN. SECTOR FUEL		03:24	9081	
| ARR FUEL	7815						
			| FUEL PADDING		00:00	0	
			| ECONOMIC TANKERING		01:32	4000	
| FUEL PRICE RATIO	:	0.78	| TAXI			184	.....
| TANKERING	:	YES					
| ZFW CHG M1000 KGS BURN LESS	59 KGS		BLOCK FUEL		04:56	13265	
| ZFW CHG P1000 KGS BURN MORE	59 KGS						
			| EXTRA		.....	.....
| FL	DIST	W/C	TIME	FUEL			
2ND 330	0773	M010	01:55	5283	ADJUSTED BLOCK FUEL
3RD 310	0773	M009	01:55	5362			
					DIVN		3240
					DIVN RDG	

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|TAKEOFF ALTN : NOT REQD
|FEA          : NOT APPLICABLE
|ETOPS ALTN  : NON ETOPS
    
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ALTN	W/C	DIST	FL	TIME	FUEL	MDF
WADD	M014	0229	F190	00.46	02007	03240
WIII	P022	0448	F340	01.10	03013