

Air Traffic Service

(ATS)



Republic of the Philippines
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

FOR : CAPTAIN JIM C. SYDIONGCO
Director General

FROM : ATTY. ANTONIO G. GONZALES
Acting ADG II, Air Traffic Service

SUBJECT : Annual Accomplishment Report for the year 2017

DATE : February 02, 2018

AIRCRAFT MOVEMENT STATISTICS

Air Traffic Service Facilities						
Area Control Centers		Approach Control Offices		Aerodrome Control Facilities	Manila Aeronautical Mobile Service Station	Flight Service Stations (Advisory Aerodromes)
Manila	Mactan	Tower	Approach			
637,367	261,299	310,153	564,025			
898,666		874,178		686,264	300,063	96,535
2,855,706						

AIR TRAFFIC PLANNING and PROGRESSION DEPARTMENT

AIR TRAFFIC PLANNING DIVISION

Project Name	Approved Budget of Contract (ABC)	Program of Work No. / Signed	Bids And Awards (BAC) Status
Supply, Delivery, Installation, Testing & Commissioning of Aerodrome Tower Simulator	P100Million	13-155-10	Post Qualified
Procurement of Clear Book for ATS-SMS ICAO Audit Preparation	P180,000.00	C17-023-03	Completed
Procurement of Flight Progress Strips for ATS Facilities	P224,000.00	C17-026-03	Completed
Supply and Delivery of 1000 Rolls of Thermal Strips for Manila ACC	P2,000,000.00	17-021-06	Completed
Proposed Installation of ATS Office Space at the Gym Rooftop Building	P997,260.35	C17-050-05	Completed
Supply & Delivery of Hydraulic 3 Spindle Paper Drill for AIS	P600,000.00	C17-070-07	Completed
Supply & Delivery of Controller's Chair for ATS Offices & Facilities.	P445,200.00	C17-101-09	Completed
Supply & Delivery of Two (2) Layer Bunk Beds with Foam Mattresses for ATS Quarters	P150,000.00	C17-072-07	Completed
Supply, Delivery & Installation of ACUs for ATS	P960,000.00	C17-125-11	For Delivery
Supply & Delivery of Twelve (12) units Headset for Manila ACC	P999,036.00	C17-096-09	For Delivery

Financial Data

C.O.B.	M.O.O.E / Capital Outlay	Obligated / Disbursed	Variance	Budget Utilization
2017	P344,772,795.00	P157,590,506.79	P187,182,288.21	45.71%
2016	P319,438,823.00	P91,632,329.00	P227,806,494.00	28.68%

Work Force

ATMO	ATMO Asst.	ATC Assistant	Total Technical Personnel	
666	55	22	743	
Support Staff / Non-Tech				
26				
UtilityWorker II	ATFM Assistant	Admin Assistant II	Facility Airport Cleaner	Office Assistant
10	4	8	2	2
CAOCSP 03 (ongoing training)				
39				
TOTAL	769			

Deceased	Retired	Availed Early Retirement	Resigned	Transferred to Different CAAP Offices	Total Personnel
1	8	4	10	4	27

AIR TRAFFIC CONTROL and AIRSPACE MANAGEMENT DEPARTMENT

AREA CONTROL CENTER DIVISION

Manila Area Control Center

Aircraft Movement	Q1	Q2	Q3	Q4	TOTAL
Int'l Air Carrier	111408	110806	111551	116100	449865
Domestic Air Carrier	41039	43580	40177	41598	166394
General Aviation	3048	3136	2853	3072	12109
Military/Police	2016	2414	2525	2044	8999
TOTAL	157511	159936	157106	162814	637,367

Mactan Area Control Center

Month	International and Domestic			Overall Total
	Airline	Military	General Aviation	
Jan	19,963	323	450	20,736
Feb	17,810	363	497	18,670
March	20,494	381	606	21,481
April	21,587	415	489	22,491
May	23,425	623	488	24,536
June	20,361	865	305	21,531
July	20,584	696	379	21,659
Aug	20,936	785	541	22,262
Sep	19,538	713	569	20,820
Oct	20,678	691	467	21,836
Nov	20,053	453	437	20,943
Dec	23,234	596	504	24,334
Total	248,663	6,904	5,732	261,299

AIR TRAFFIC PROGRESSION DIVISION

Travels			
License Renewal / Annual Medical	Facility Training	Facility Inspection	Total
275	54	26	189

Training Courses		Seminars / Workshops		Meetings		Conferences / Symposium	
Local	Overseas	Local	Overseas	Local	Overseas	Local	Overseas
153	15	68	32	147	51	1	5
Total							
Local				Overseas			
369				103			

APPROACH CONTROL DIVISION

Facilities	Approach Traffic	Aerodrome Traffic	Total
Bacolod	29729	22724	52453
Butuan	7140	7892	15032
Cagayan de Oro	17197	18538	35735
Clark	22427	127109	149536
Davao	27332	42317	69649
Kalibo	40587	21577	62164
Laoag	1963	5441	7404
Legazpi	6571	8096	14667
Mactan	97544	Tower Stat	97544
Manila	275249	Tower Stat	275249
Puerto Princesa	13079	19125	32204
Subic	0	161	161
Tacloban	10169	10600	20769
Tambler	5739	6347	12086
Zamboanga	9299	20226	29525
TOTAL	564,025	310,153	874,178

AERODROME CONTROL DIVISION

Facilities	Q1	Q2	Q3	Q4	Total
Baguio	374	245	151	569	1339
Busuanga	2144	3152	3180	3103	11579
Caticlan	7592	8435	4017	6681	26725
Cotabato	1228	1159	1159	1159	4705
Dipolog	761	1039	786	896	3482
Dumaguete	4415	7432	7684	9040	28571
Iloilo	5251	5291	5747	4795	21084
Mactan	26008	31038	28522	28646	114214
Plaridel	25625	28256	25810	21688	101379
Roxas	1042	1090	1094	916	4142
San Fernando	19740	16370	18623	15998	70731
Tagbilaran	1884	2126	2456	2620	9086
Manila	68941	70390	67920	67099	274350
Manila Helicopter	4122	3852	3409	3494	14877
Grand TOTAL	169,127	179,875	170,558	166,704	686,264

AIRSPACE AND FLIGHT PROCEDURE DESIGN DIVISION

A. PROCEDURE DESIGN

I. PERFORMANCE-BASED NAVIGATION (PBN)

PROJECT	STATUS	REMARKS
NEW IFPs		
1. MACTAN ADDITIONAL SIDs RWY04/22	Published	AIP AMENDMENT 064/17 dated 12 OCT 2017
2. LEGAZPI ADDITIONAL STARs & SIDs RWY06/24	Design completed	Undergoing AFPDD validation
3. TACLOBAN NEW PROCEDURES RWY18	Design completed	
4. BUTUAN ADDITIONAL STARs & SIDs RWY12/30	Design completed	
MAINTENANCE/PERIODIC REVIEW		
1. KALIBO PROCEDURE REVIEW (APPROACH) RWY05	Published	AIP SUPPLEMENT A014 dated 26 MAY 2017
2. LEGAZPI PROCEDURE REVIEW (APPROACH) RWY06	Review completed	RWY threshold displacement on-going
3. TACLOBAN PROCEDURE REVIEW RWY36	Review completed	Undergoing AFPDD validation
4. BUTUAN PROCEDURE ADJUSTMENT DUE TMA EXPANSION RWY12/30	Design completed	
5. PUERTO PRINCESA AMENDMENT SIDs RWY09/27, STAR & APPROACH RWY27	Design completed	

II. CONVENTIONAL PROCEDURES (GROUND-BASED)

PROJECT	STATUS	REMARKS
NEW IFPs		
1. LAGUINDINGAN VOR STAR & ILS APPROACH RWY27	Published	AIP SUPPLEMENT A015 dated 23 JUNE 2017
2. ROXAS VOR APPROACH RWY14	Published	AIP AMENDMENT 063/17 dated 17 AUG 2017
3. PUERTO PRINCESA VISUAL PRESCRIBED TRACK RWY27	Design completed	Submitted to AANSOO for validation AUG 2017
4. MACTAN ILS APPROACH RWY04/22	Design completed	Submitted to AANSOO for validation SEPT 2017
MAINTENANCE/PERIODIC REVIEW		
1. DAVAO PROCEDURE REVIEW VOR SIDs RWY05/23	Review completed	Undergoing AFPDD validation
2. MANILA PROCEDURE REVIEW (ILS, VOR Z & Y) RWY06/ 24	Review completed	
3. PUERTO PRINCESA AMENDMENT RWY09/27 VOR SIDs, RWY27 VOR STAR & APPROACHES	Review completed	

III. VFR PROCEDURES

AIRPORT	STATUS	REMARKS
NEW VFPs		
1. SIARGAO	Published	AIP SUPPLEMENT A019 dated 13 JUNE 2017
2. BUTUAN	Published	AIP AMENDMENT 063/17 dated 07 AUG 2017
3. NAGA	Published	AIP SUPPLEMENT A020 dated 13 OCT 2017
4. ILOILO/BACOLOD	Published	AIP AMENDMENT 065/17 dated 07 DEC 2017

B. AIRSPACE CLEARANCE

	CIVILIAN ACTIVITIES		MILITARY ACTIVITIES	
MONTH	APPROVED	DISAPPROVED	APPROVED	DISAPPROVED
JAN	19	3	36	0
FEB	12	1	32	0
MAR	28	0	29	0
APR	18	3	28	0
MAY	30	3	26	1
JUN	12	1	31	0
JUL	14	0	16	0
AUG	17	0	13	0
SEP	10	0	32	0
OCT	20	0	23	0
NOV	13	0	22	1
DEC	18	0	15	1
SUB-TOTAL	211	11	303	3
	222		306	
GRAND TOTAL	528			

C. HEIGHT CLEARANCE

HEIGHT CLEARANCE PERMIT APPLICATIONS		
MONTH	APPROVED	DISAPPROVED
JAN	138	0
FEB	136	0
MAR	233	0
APR	158	0
MAY	725	3
JUN	200	0
JUL	250	1
AUG	150	0
SEP	234	0
OCT	145	0
NOV	150	0
DEC	175	2
TOTAL	2694	6
GRAND TOTAL	2700	

AERONAUTICAL INFORMATION and COMMUNICATIONS DEPARTMENT

AERONAUTICAL TELECOMMUNICATION DIVISION

Aeronautical Fixed Service

Months	Local/Domestic	International	TOTAL MESSAGES
January	1,692,054	1,719,077	3,411,131
February	1,710,506	160,150	1,870,656
March	1,909,305	179,245	2,088,550
April	1,896,849	173,847	2,070,696
May	2,023,383	193,957	2,217,340
June	1,869,156	183,947	2,053,103
July	1,956,704	197,608	2,154,312
August	1,955,947	188,450	2,144,397
September	1,591,655	324,380	1,916,035
October	1,671,765	338,814	2,010,579
November	1,625,497	338,146	1,963,643
December	1,719,077	341,693	2,060,770
TOTAL	21,621,898	4,339,314	25,961,212

Flight Service Stations

Airports	Q1	Q2	Q3	Q4	TOTAL
Basco	696	916	470	574	2656
Calbayog	258	294	223	218	993
Catarman	178	146	170	145	639
Cauayan	2104	1970	988	1367	6429
Jolo	1724	2888	2830	2480	9922
Ozamis	691	874	1260	2410	5235
Marinduque	2120	1392	1937	3893	9342
Masbate	273	1117	1583	464	3437
Naga	959	733	738	1142	3572
Pagadian	587	768	630	613	2598
Romblon	69	118	112	767	1066
Sanga-Sanga	324	669	246	474	1713
San Jose	4031	3585	5063	3621	16300
Surigao	569	511	416	419	1915
Virac	248	188	120	120	676
Tuguegarao	1372	1058	739	1284	4453
Vigan	2741	4633	4976	5985	18335
Ormoc	-	-	4507	2747	7254
TOTAL	18944	21860	27008	28723	96,535

Aeronautical Mobile Service: International Flights

Total Inbound FIR	Total Outbound FIR	Total Overfly Flights	Total HF Contacts	Total VHF Contacts
Jan 7390	Jan 5782	Jan 12356	Jan 23387	Jan 1054
Feb 5934	Feb 6082	Feb 11596	Feb 21552	Feb 952
Mar 6553	Mar 6525	Mar 12330	Mar 23528	Mar 1186
Q1 19877	Q1 18389	Q1 36282	Q1 68467	Q1 3192
Apr 6378	Apr 6346	Apr 11527	Apr 21840	Apr 1159
May 6245	May 6735	May 11938	May 24441	May 1100
June 6137	June 6286	June 11651	June 23172	June 1339
Q2 18760	Q2 19367	Q2 35116	Q2 69453	Q2 3598
July 6403	July 6311	July 12959	July 23465	July 1351
Aug 6488	Aug 6490	Aug 12771	Aug 23384	Aug 1354
Sep 6080	Sep 6087	Sep 11932	Sep 47282	Sep 2761
Q3 18971	Q3 18888	Q3 37662	Q3 94131	Q3 5466
Oct 6402	Oct 6334	Oct 12523	Oct 49398	Oct 3194
Nov 6444	Nov 6422	Nov 12237	Nov 25530	Nov 1607
Dec 6940	Dec 6830	Dec 12619	Dec 18518	Dec 1872
Q4 19786	Q4 19586	Q4 37379	Q4 93446	Q4 6673
Total Q1 Traffic			74,548	
Total Q2 Traffic			73,243	
Total Q3 Traffic			75,521	
Total Q4 Traffic			76,751	
Grand Total			300,063	

AERONAUTICAL INFORMATION SERVICE / MAP DIVISION

AIS DOCUMENTS	1ST QUARTER		
	INTERNATIONAL (USD)	LOCAL (PhP)	Qty
AIP MANUAL	1,030	47,600	13
AIP SUBSCRIPTION	2,530	60,800	55
AERONAUTICAL CHARTS / TMA ENR	Php4,100		3
TOTAL	\$3,560 / Php108,400		71
AIS DOCUMENTS	2 nd Quarter		
	INTERNATIONAL (USD)	LOCAL (PhP)	Qty
AIP MANUAL	130	34,000	10
AIP SUBSCRIPTION	160	28800	18
AERONAUTICAL CHARTS / TMA ENR	Php1,527		3
TOTAL	\$290 / Php64,327		31

OTHER PUBLICATION	1ST QTR	2ND QTR	3RD QTR	4TH QTR
NOTAM C	170	252	241	194
NOTAM B	170	1154	6995	1068
ASHTAM	0	0	0	0
AIC	3	1	1	0
AIP SUPPLEMENTS	7	8	1	4
AIP AMENDMENTS	2	0	1	1

AIS DOCUMENTS	3RD QUARTER		
	INTERNATIONAL (USD)	LOCAL (PhP)	Qty
AIP MANUAL	520	27,200	12
AIP SUBSCRIPTION	640	20,800	20
AERONAUTICAL CHARTS / TMA ENR	1,985		4
TOTAL	\$1160 / P49,985		36
AIS DOCUMENTS	4TH Quarter		
	INTERNATIONAL (USD)	LOCAL (PhP)	Qty
AIP MANUAL	520	42,000	12
AIP SUBSCRIPTION	320/0	14,400	12
AERONAUTICAL CHARTS / TMA ENR	5,925		348
TOTAL	\$840 / P33,000.		372

International Flight Briefing Operations (IFOBS)

International Flight Plans Filed	Scheduled Air Carrier	Non- Scheduled	General Aviation	Military	Total
January	4,671	7	65	7	4,750
February	4,160	16	49	25	4,250
March	4,598	15	71	15	4,699
Q1	13,429	38	185	47	13,699
April	4,572	23	48	17	4,662
May	4,729	20	61	10	4,820
June	4,472	22	35	16	4,545
Q2	13,773	65	144	43	14,027
July	4,554	30	34	37	4,655
August	4,478	40	58	19	4,595
September	4,189	47	34	25	4,295
Q3	13,221	117	126	81	13,545
October	4,380	32	54	25	4,491
November	4,277	21	36	47	4,381
December	4,777	17	53	16	4,863
Q4	13,434	70	143	88	13,735
Grand Total	53,857	290	598	259	55,006

Flight Briefings Made	Scheduled Air Carrier	Non- Scheduled	General Aviation	Military	Total
January	125	7	65	7	204
February	110	16	49	25	200
March	122	15	71	15	223
Q1	357	38	185	47	627
April	119	23	48	17	207
May	125	20	10	61	216
June	118	22	35	16	191
Q2	362	65	93	94	614
July	125	30	34	37	226
August	123	40	58	19	240
September	116	47	34	25	222
Q3	364	117	126	81	688
October	125	32	54	25	236
November	116	21	36	47	220
December	124	17	53	16	210
Q4	365	70	143	88	666
Grand Total	1448	290	547	310	2,595

Operations and Rescue Coordination Center (ORCC)

Month	AFTM Messages (CADAS)		Kalayaan Flight Monitored	Airport Service Extension	Slotting / EDCT exempt	Handled Alerts	
	Incoming	Outgoing				Aircraft Emergencies / Cospas Sarsat Msgs / Incerfa	Flights Ops Clearance
Jan	23,888	412	28	169	17	8 / 98 / 2	20
Feb	21,173	368	18	154	43	13 / 61 / 0	9
Mar	23,340	405	27	203	35	14 / 49 / 1	32
Q1	68,401	1,185	73	526	95	35 / 208 / 3	61
Apr	23,392	476	33	280	36	10 / 53 / 0	73
May	25,721	581	21	373	24	19 / 49 / 1	33
June	23,277	437	33	271	13	10 / 44 / 4	19
Q2	72,390	1,494	87	924	73	39 / 146 / 5	125
July	26,300	525	26	320	7	15 / 74 / 1	30
Aug	25,771	419	25	257	3	21 / 75 / 0	47
Sep	24,961	542	25	35	34	25 / 104 / 0	800
Q3	77,032	1,486	76	612	44	61 / 253 / 1	877
Q4	78,644	3,161	247	1836	68	116 / 250 / 4	3182

Air Traffic Flow Management (ATFM)

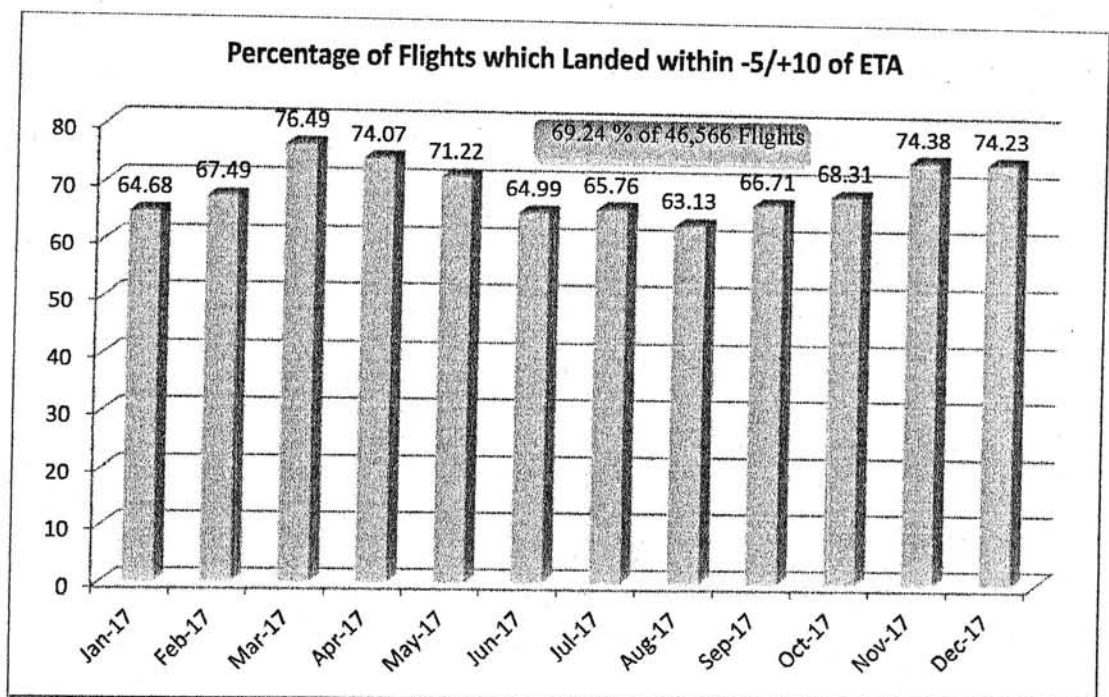
I. PERFORMANCE

Ground Delay program is a program implemented and monitored by the Air Traffic Flow Management Unit of Air Traffic Service for compliance. Ground Delay Program (GDP) whereby an EDCT is assigned to ensure that the number of aircraft per time period does not exceed ATC capacity.

The following are INDICATORS of the effects of GDP:

1. Timeliness on Arrival (Based on ATS targets)

Target: At least 70% of NAIA arrival traffic to arrive within -5/+10 minutes of Estimated Time of Arrival (ETA).



Outcome: Actual results fell short of target by .71 percentage point, but an increase of 12.19 percent from the previous year. From the table below, for the same number of arrivals that flowed per hour (20/hr), there is a decrease in the timeliness of arrival from the period of June to October.

Table 1. Percentage of Flights Which Arrived Based on ATS targets

Note.

- a. Timeliness on Arrival is based on ATA less ETA of traffic which arrived at NALA between 7AM-7PM from the period of January to December 2017.
- b. Timeliness on arrival is not based on Airline published schedules and therefore does not correlate to their "On Time Performance".
- c. VFR and military traffic do not form part of the total flights.

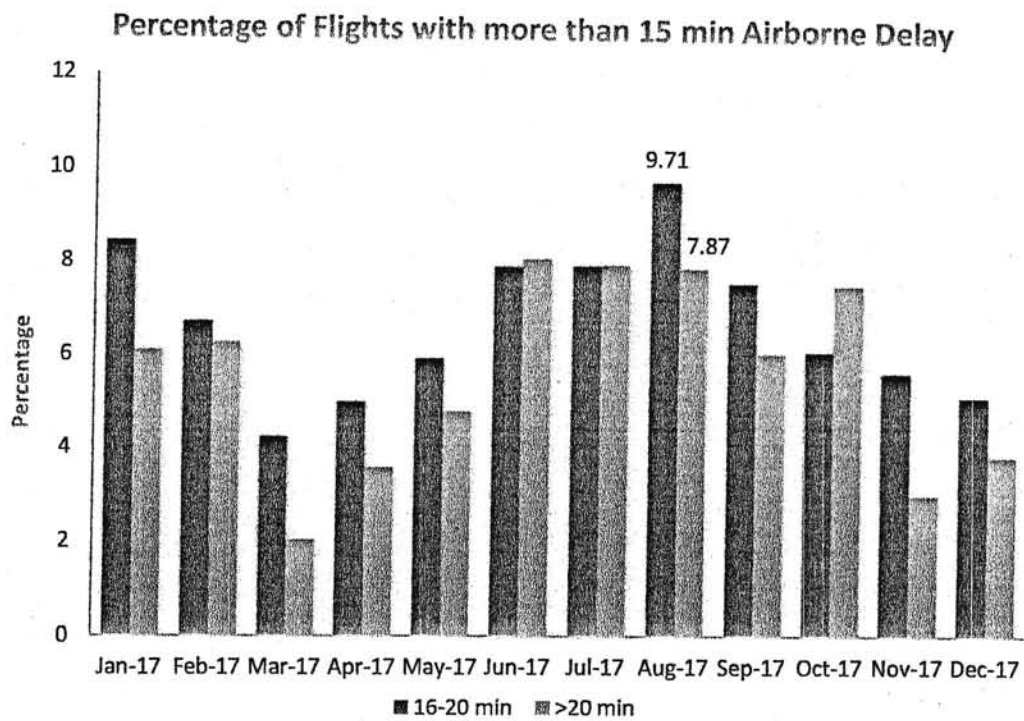


Table 2. Percentage of Flights with More Than 15 minutes of Airborne Delay in 2017

Table 2 shows the percentage of arrival traffic in Manila which exceeded 15 minutes of airborne delay. Out of 46,566 NAIA arrival flights studied (IFR arrival traffic within ATFM hours of operation), 6.70% or 3,120 arrival traffic experienced 16 to 20 minutes airborne delay while 5.59% or 2,604 arrival traffic experienced airborne delay greater than 20 minutes.

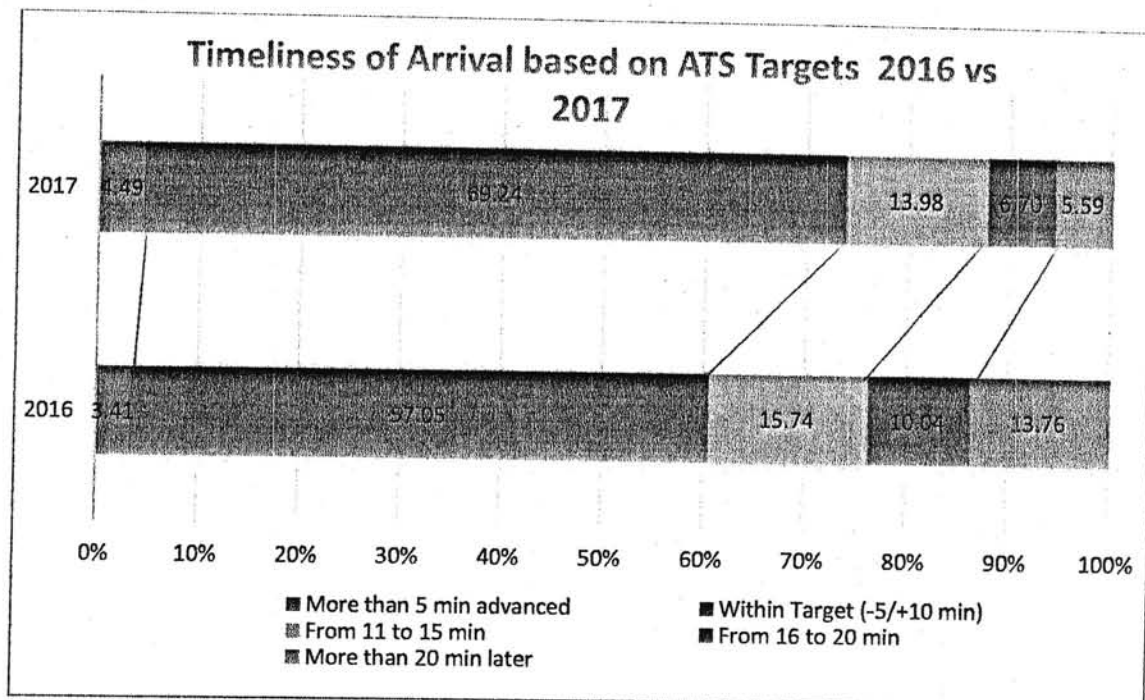


Table 3. Timeliness of Arrival based on ATS Target 2016 vs 2017

This year saw a 1.76 percentage-points decrease in the number of flights which experienced more than 10 minutes airborne delay on arrival compared to the previous year. Additionally, the percentage of flights which experienced more than 20 minutes airborne delay on arrival decrease by 8.17 percentage points this year and a 12.19 percentage point increase in timeliness of -5/+10min.

2. **At least 70% compliance to Estimated Departure Clearance Time (EDCT).**

Target: 70% or more of GDP flights departed within 3 minutes of assigned wheels-up time.

Outcome: Table 5

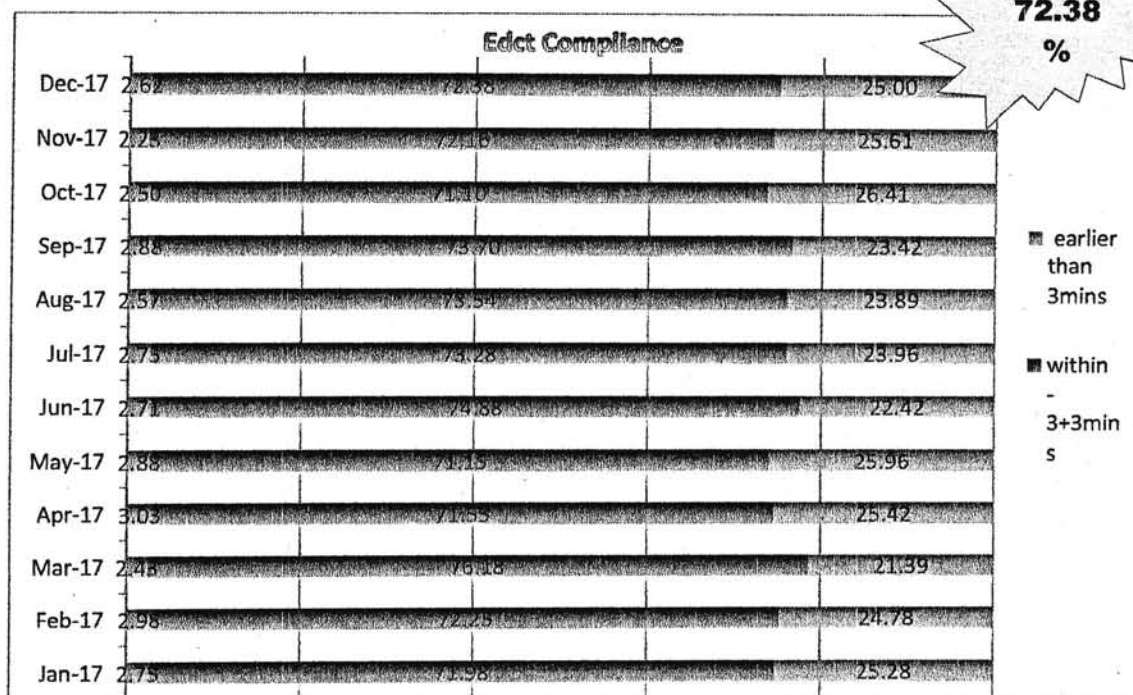


Table 4 above shows, 72.38% of 35,867 EDCT assigned flights took off within the EDCT tolerance window of 3 minutes advance to 3 minutes late. The -3/+3 minute tolerance is for Aircraft's compliance. A separate tolerance, -3/+10 min is allowed to ATC to minimize frequency of coordination between ATC facilities which could increase ATC workload. This tolerance is given to ATC as "extension to EDCT."

The next table shows the percentage of EDCT flights departing within and later than the -3 /+10-minute tolerance.

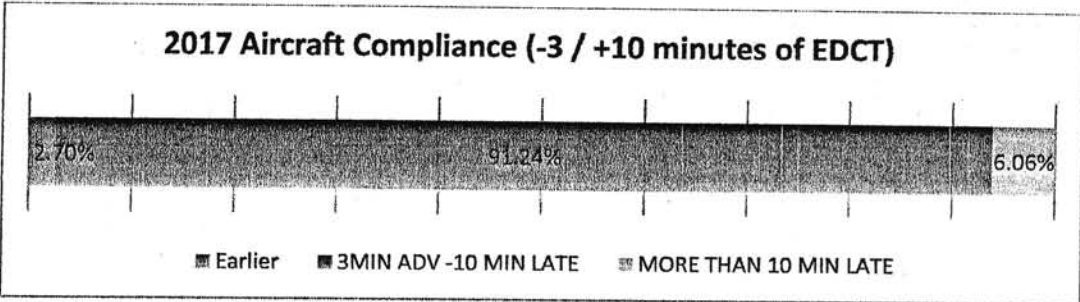
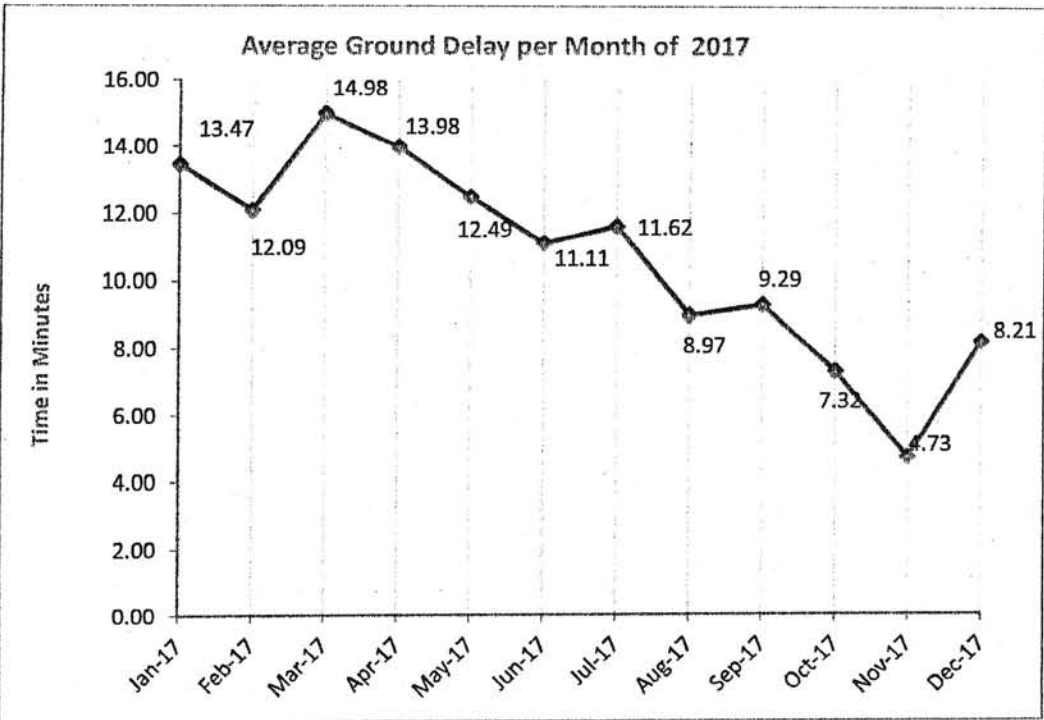


Table 6

At an EDCT tolerance of -3/+10 minutes, 91.24% of EDCT flights took-off within the said tolerance window while barely 6.06% took-off more than 10 minutes late.

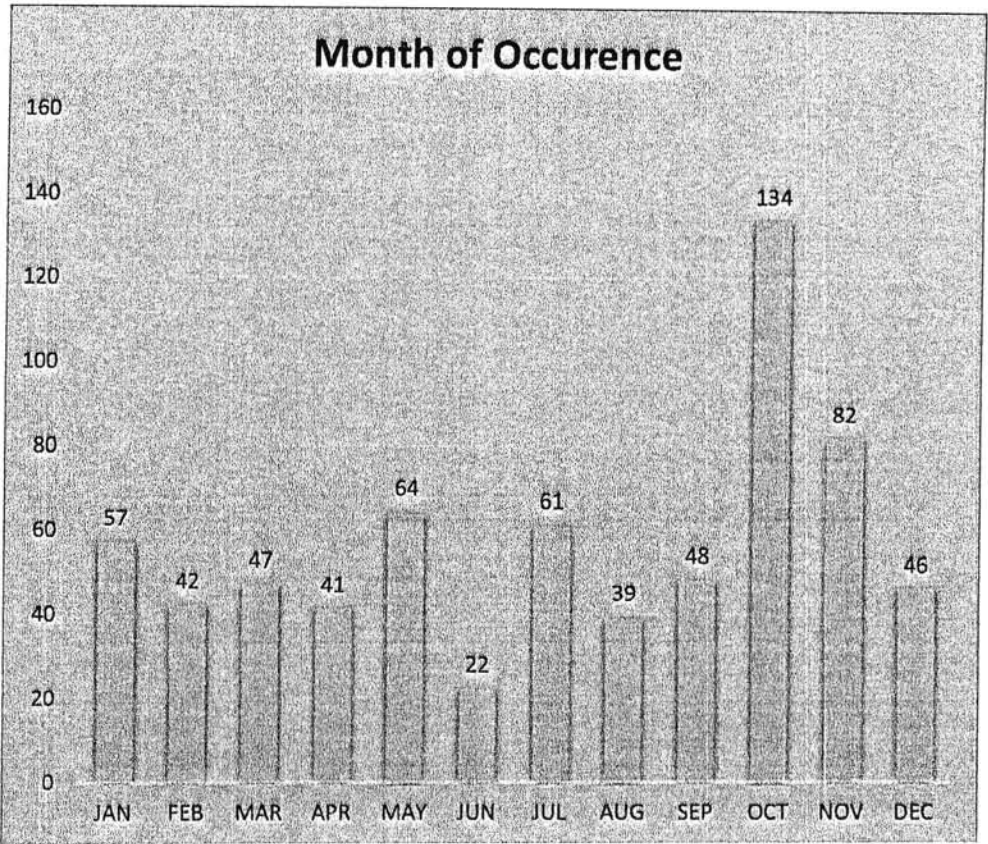
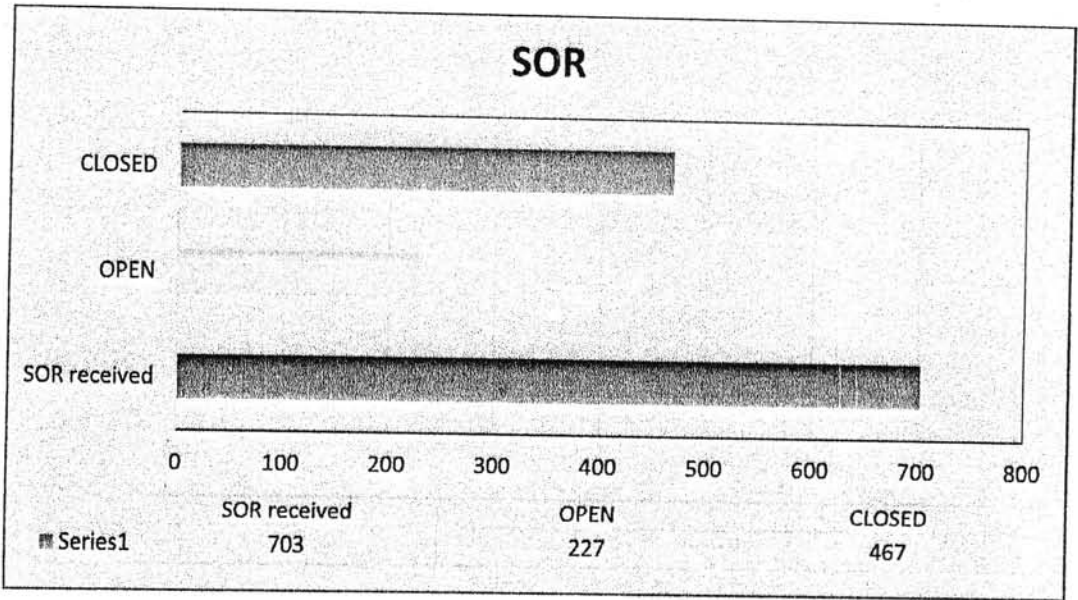
3. Ground Delay

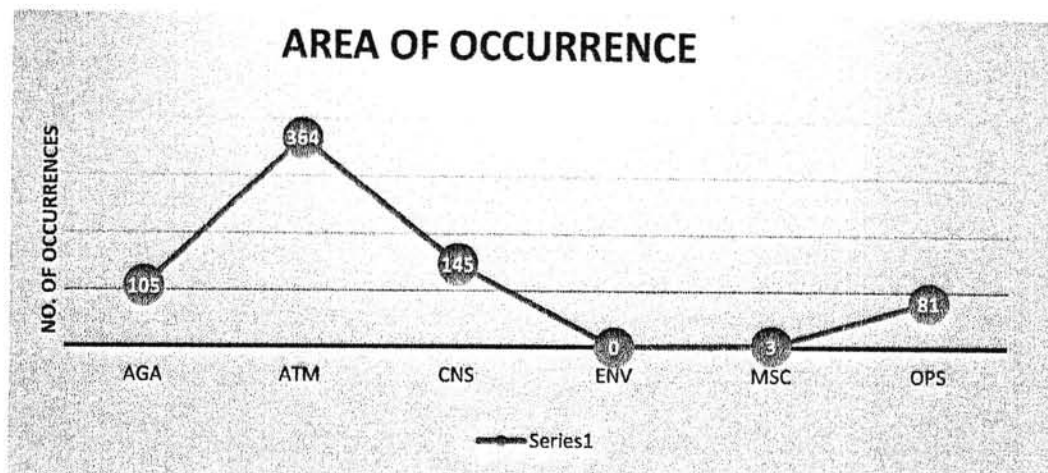


Outcome:

Table 7. Average Ground Delay per Month of 2017

Safety Management Systems: Safety Occurrence Repots





Prepared by:

JOE MARIE ANTHONY E. ELIGIO
Air Traffic Planning and Progression Department

Checked by:

ANNA JOY C. PAPAG
Acting Division Chief III
Air Traffic Planning Division

Checked by:

ARLENE B. GENTICA
Acting Division Chief III
Air Traffic Progression Division

Recommend Approval:

JOSE J. LUNA
Department Manager III
Air Traffic Planning and Progression Department

Approved by:

ATTY. ANTONIO G. GONZALES
Acting ADG II, Air Traffic Service