APPENDIX-5D

Draft AFI Regional Air Navigation Performance Targets

1. **Reduce ANS contribution to Accidents rates by X% by dd/mm/yy**
2. **Reduce ANS Incidents (AIRPROXEs) rates by X% by dd/mm/yy**
3. **Establishment and implementation of National ASBU Plan by dd/mm/yy by AFI States**
4. **Establishment and review of National PBN Plan by dd/mm/yy and expected implementation by dd/mm/yy.**
5. **Implement seamless ANS along air Traffic Flows (ARs) by dd/mm/yy (AFI single sky)**
6. **Integration of ANS supporting infrastructure/ systems by dd/mm/yy**
7. **Establishment of effective and operational SAR Organization by dd/mm/yy**
8. **Reduce CO2 emission by X% by dd/mm/yy**
9. **Harmonization of ANS operations and regulations by dd/mm/yy**
10. **Establishment and implementation of ANSPs QMS by dd/mm/yy**
11. **ANS Human Resource Capacity Building by dd/mm/yy**

Table of AFI Regional Air Navigation Performance Targets

<table>
<tr><th rowspan="2">AFI ANS Performance Targets</th><th colspan="3">Implementation Components</th></tr>
<tr><th>Immediate Phase (ASBU Block 0)</th><th>Medium Phase (ASBU Block 1&2)</th><th>Long Term Phase (ASBU Block 3)</th></tr>
<tr><td>1. Reduce ANS contribution to Accidents rates by X%
<table>
<tr><td>a)</td><td></td><td>2017/23</td></tr>
<tr><td>b)Coordination</td><td>20</td><td>10/15</td></tr>
<tr><td>c)ATC personnel competency</td><td>20</td><td>15/10</td></tr>
<tr><td>d)Lack of awareness on impact of ATC operations on cockpit safety</td><td>5</td><td>4/3</td></tr>
<tr><td>e)Procedures</td><td>15</td><td>15/10</td></tr>
<tr><td>f) Route network</td><td>15</td><td>10/5</td></tr>
<tr><td>g)Workplace environment</td><td>10</td><td>18/15</td></tr>
<tr><td>h)CNS infrastructure deficiencies</td><td>15</td><td>18/15</td></tr>
</table></td>
<td>Improvements in safety and increase Capacity and Efficiency
• Training of operational and technical personnel - Continuous
• Review and reorganization of airspace by dd/mm/yy
• Reduce lack of Communications and Coordination by X% per year
• Reduce accidents due to meteorological conditions to (ATM)5% per year
• Improve surveillance coverage
• Deployment of ATM Safety Defences by dd/mm/yy (insert B0-SNET dates)</td>
<td>Improvements in safety and increase Capacity and Efficiency
• Training of operational and technical personnel - Continuous
• Review and reorganization of airspace by dd/mm/yy
• Reduce lack of Communications and Coordination by (ATM) 3.4% per year
• Reduce accidents due to meteorological conditions to X% per year
• Improve surveillance coverage
• Deployment of ATM Safety Defences by (insert B0-SNET dates)</td>
<td>Improvements in safety and increase Capacity and Efficiency
• Training of operational and technical personnel - Continuous
• Review and reorganization of airspace by dd/mm/yy
• Reduce lack of Communications and Coordination by X% per year
• Reduce accidents due to meteorological conditions to X% per year
• Improve surveillance coverage
• Deployment of ATM Safety Defences by dd/mm/yy</td></tr>
<tr><td>2. Reduce ANS Incidents (AIRPROXEs) rates by 50%</td>
<td>Improvements in safety and increase Capacity and Efficiency
• Training of operational and technical personnel - Continuous
• Review and reorganization of airspace by dd/mm/yy (20% of airspace by 2017)
• Reduce lack of Communications and Coordination by X% per year
• Reduce incident due to meteorological conditions to X% per year
• Improve surveillance coverage
• Deployment of ATM Safety Defences by dd/mm/yy (insert B0-SNET dates)
• Implementation of AIAG/TAG Corrective Action Plans – Continuous</td>
<td>Improvements in safety and increase Capacity and Efficiency
• Training of operational and technical personnel - Continuous
• Review and reorganization of airspace by dd/mm/yy (20% of airspace by 2017)
• Reduce lack of Communications and Coordination by X% per year
• Reduce incident due to meteorological conditions to X% per year
• Improve surveillance coverage
• Deployment of ATM Safety Defences by dd/mm/yy
• Implementation of AIAG/TAG Corrective Action Plans – Continuous</td>
<td>Improvements in safety and increase Capacity and Efficiency
• Training of operational and technical personnel - Continuous
• Review and reorganization of airspace by dd/mm/yy
• Reduce lack of Communications and Coordination by X% per year
• Reduce incident due to meteorological conditions to X% per year
• Improve surveillance coverage
• Deployment of ATM Safety Defences by dd/mm/yy
• Implementation of AIAG/TAG Corrective Action Plans</td></tr>
<tr><td>3. Establishment and implementation of National ASBU Plan by DD/MM/YY by AFI States</td>
<td>Development and implementation of ASBU/National ATM Master Plans</td>
<td>Development and implementation of ASBU/National ATM Master Plans</td>
<td>Development and implementation of ASBU/National ATM Master Plans</td></tr>
</table>

	• *Publication of National ASBU implementation Plans by dd/mm/yy* • *Harmonization of National ASBU Plans with National ATM Master Plans by dd/mm/yy* • *Publication of ASBU implementation Roadmap by dd/mm/yy*	• *Publication of National ASBU implementation Plans by dd/mm/yy* • *Harmonization of National ASBU Plans with National ATM Master Plans by dd/mm/yy* • *Publication of ASBU implementation Roadmap by dd/mm/yy*	• Publication of National ASBU implementation Plans **by dd/mm/yy** • Harmonization of National ASBU Plans with National ATM Master Plans **by dd/mm/yy** • Publication of ASBU implementation Roadmap **by dd/mm/yy**
4. **Establishment and implementation of National PBN Plan by 31/12/2016 by all AFI States**	**Development and implementation of PBN Plans** • *Publication National PBN Plans by dd/mm/yy (AFI Plan - Dec 2016)* • *Publication of PBN Flight Procedures for international airports by by dd/mm/yy (AFI Plan - Dec 2016)* • *Development of PBN Training Packages by Aviation Training Organisations by dd/mm/yy (2016)* • *Assist XX States to with (insert targets from AFPP 2016 programme and extrapolate to 2017) capacity for PBN Approvals and Quality Management*	**Development and implementation of PBN Plans** • *Publication National PBN Plans by dd/mm/yy* • *Publication of PBN Flight Procedures for international airports by by dd/mm/yy* • *Development of PBN Training Packages by Aviation Training Organisations by dd/mm/yy* • *Assist XX States to with capacity for PBN Approvals and Quality Management*	**Development and implementation of PBN Plans** • *Publication National PBN Plans by dd/mm/yy* • *Publication of PBN Flight Procedures for international airports by by dd/mm/yy* • *Development of PBN Training Packages by Aviation Training Organisations by dd/mm/yy* • *Assist XX States to with capacity for PBN Approvals and Quality Management*
5. **Implement seamless ANS along air Traffic Flows (ARs) by dd/mm/mm (AFI single sky)**	**Reorganization of airspace and routes structure** • *Create Awareness for implementation of RNAV and RNP4 airspace over continental and Oceanic airspaces by dd/mm/yy (2016- to be done by APIRG OPREC Project Team)* • *Reduce the number of AFI MWOs to X per year (this target is linked to the reduction of the number of FIRs)* • *Determination of operation requirements for airspace reorganization by dd/mm/yy (2016- to be done by APIRG OPREC Project Team)* • *Establishment of Project Management framework for airspace reorganization by dd/mm/yy - 2015 (APIRG 20)*	**Reorganization of airspace and routes structure** • *Create Awareness for implementation of RNAV and RNP4 airspace over continental and Oceanic airspaces by dd/mm/yy* • *Reduce the number of AFI MWOs to X per year (this target is linked to the reduction of the number of FIRs)* • *Determination of operation requirements for airspace reorganization by dd/mm/yy* • *Establishment of Project Management framework for airspace reorganization by dd/mm/yy*	**Reorganization of airspace and routes structure** • *Create Awareness for implementation of RNAV and RNP4 airspace over continental and Oceanic airspaces by dd/mm/yy* • *Reduce the number of AFI MWOs to X per year (this target is linked to the reduction of the number of FIRs)* • *Determination of operation requirements for airspace reorganization by dd/mm/yy* • *Establishment of Project Management framework for airspace reorganization by dd/mm/yy*
6. **Integration of ANS supporting infrastructure/ systems by dd/mm/mm**	➢ **Integration of communication infrastructures** ▪ *AFTN/AMHS implemented by: dd/mm/yy* ▪ *AIDC implemented by: dd/mm/yy* ▪ *VoIP implemented by: dd/mm/yy* ▪ *VHF implemented by: dd/mm/yy* ▪ *CPDLC implemented by: dd/mm/yy* ▪ *VDL implemented by: dd/mm/yy* ▪ *NOCs implemented by dd/mm/yy* ▪ *BCCs implemented by dd/mm/yy* ▪ ➢ **Integrated GNSS infrastructures and regulations** ▪ *Basic RNAV/RNP flight procedures implemented by: dd/mm/yy* ▪ *SBAS implemented by: dd/mm/yy*	➢ **Integration of communication infrastructures** ▪ *AFTN/AMHS implemented by: dd/mm/yy* ▪ *AIDC implemented by: dd/mm/yy* ▪ *VoIP implemented by: dd/mm/yy* ▪ *VHF implemented by: dd/mm/yy* ▪ *CPDLC implemented by: dd/mm/yy* ▪ *VDL implemented by: dd/mm/yy* ▪ *X% of AMBEX digital units implemented by dd/mm/yy* ➢ **Integrated GNSS infrastructures and regulations** ▪ *Basic GNSS procedures implemented by: dd/mm/yy* ▪ *SBAS implemented by: dd/mm/yy* ▪ *SBAS implemented by: dd/mm/yy*	➢ **Integration of communication infrastructures** ▪ *AFTN/AMHS implemented by: dd/mm/yy* ▪ *AIDC implemented by: dd/mm/yy* ▪ *VoIP implemented by: dd/mm/yy* ▪ *VHF implemented by: dd/mm/yy* ▪ *CPDLC implemented by: dd/mm/yy* ▪ *VDL implemented by: dd/mm/yy* ▪ *Full implementation of AMBEX digital units by dd/mm/yy* ➢ **Integrated GNSS infrastructures and regulations** ▪ *Basic GNSS procedures implemented by: dd/mm/yy* ▪ *SBAS implemented by: dd/mm/yy*

	▪ *SBAS implemented by: dd/mm/yy* ➢ **Integration of surveillance systems** ▪ *SSR implemented by: dd/mm/yy* ▪ *ADS-C implemented by: dd/mm/yy* ▪ *ADS-B implemented by: dd/mm/yy* ▪ *MLAT implemented by: dd/mm/yy* ➢ **Integrated AIM** ▪ *AIS/AIM transition by: dd/mm/yy* ▪ *% of States implementing QMS for AIM by: dd/mm/yy* ▪ *% of States implementing e-TOD for Areas 1,2,3 and 4 by: dd/mm/yy* ▪ *% of States implementing WGS-84 by: dd/mm/yy* ▪ *% of States implementing AIXM by: dd/mm/yy* ▪ *% of States with e-AIP implementation by: dd/mm/yy* ▪ *% of States Implementing Digital NOTAM by: dd/mm/yy* ▪ *SWIM implemented by: dd/mm/yy* ▪ **Implement phases 1, 2, 3 and 4 of AFI digital OPMET by** *dd/mm/yy*	➢ **Integration of surveillance systems** ▪ *SSR implemented by: dd/mm/yy* ▪ *ADS-C implemented by: dd/mm/yy* ▪ *ADS-B implemented by: dd/mm/yy* ▪ *MLAT implemented by: dd/mm/yy* ➢ **Integrated AIM** ▪ *AIS/AIM transitiond by: dd/mm/yy* ▪ *SWIM implemented by: dd/mm/yy* ▪ *Implement phases 5, 6 and 7 of AFI digital OPMET Transition Plan by dd/mm/yy* ▪ *Integration of digital OPMET to SWIM environment by dd/mm/yy*	▪ *SBAS implemented by: dd/mm/yy* ➢ **Integration of surveillance systems** ▪ *SSR implemented by: dd/mm/yy* ▪ *ADS-C implemented by: dd/mm/yy* ▪ *ADS-B implemented by: dd/mm/yy* ▪ *MLAT implemented by: dd/mm/yy* ➢ **Integrated AIM** ▪ *AIS/AIM transitiond by: dd/mm/yy* ▪ *SWIM implemented by: dd/mm/yy:* ▪ *Implement phase 8 of AFI digital OPMET Transition Plan by dd/mm/yy* ▪ *Full digital OPMET exchange in the future SWIM environment by dd/mm/yy* ▪
7. Establishment of effective and operational SAR Organization by dd/mm/yy	➢ **Establishment of RSCs (2017)** ➢ ➢ ***Implementation of WAFS, IAVW and TCAC infrastructures by 90%, 80% and 90% of States respectively before 2018 (MOVE TO Applicable area)***	➢ **Effective Conduct of SAR Exercises** ➢ **Implementation of WAFS, IAVW and TCAC infrastructures by 97%, 95% and 97% of States respectively before 2028**	➢ **Effective Conduct of SAR Exercises** ➢ **Full implementation of WAFS, IAVW and TCAC infrastructures by all AFI States**
8. **Reduce CO2 emission by X% by dd/mm/yy**	**Promoting and Reporting Environmental Protection Activities** • *Awareness creation by dd/mm/yy* • *Identification of CO2 reduction projects dd/mm/yy* • *XX number of States reporting CO2 savings*	**Promoting and Reporting Environmental Protection Activities** • ***Awareness creation by dd/mm/yy*** • ***Identification of CO2 reduction projects dd/mm/yy*** • ***XX number of States reporting CO2 savings***	**Promoting and Reporting Environmental Protection Activities** • ***Awareness creation by dd/mm/yy*** • ***Identification of CO2 reduction projects dd/mm/yy*** • ***XX number of States reporting CO2 savings***
9. Harmonization of ANS operations and regulations by dd/mm/mm	***Establishment of GNSS operation regulation by dd/mm/yy*** ***Certification of QMS/MET by at least 60% of AFI States by 31/12/2018***	***Publication of GNSS Regulation by dd/mm/yy*** ***Certification of QMS/MET by at least 80% of AFI States by 2023***	***Effective mùaiontenance of GNSS Regulation by dd/mm/yy*** ***Certification of QMS/MET by 100% of AFI States by 2028***
10. Establishment and implementation of ANSPs QMS by: dd/mm/mm			
11. ANS Human Resource Capacity Building	• ***Establishment of ATSEPs, license by dd/mm/yy*** • ***Development of instrument flight procedures implementation oversight service*** • ***Development of instrument flight procedures design service*** • ***Implementation of MET personnel training and competency framework to adapt to digital OPMET working practices in 50% of AFI States by dd/mm/yy***	• ***Maintenance of ATSEPs, license by dd/mm/yy*** ***Implementation of MET personnel training and competency framework to adapt to digital OPMET working practices in 75% of AFI States by dd/mm/yy***	• ***Maintenance of ATSEPs, license by dd/mm/yy*** ***Implementation of MET personnel training and competency framework to adapt to digital OPMET working practices in 90% of AFI States by dd/mm/yy***