PBCS: Regional Monitoring Agencies

UNITED STATES NAARMO/PARMO

NAT PBCS Workshop/3

20-21 February 2018

Paris, France

Federal Aviation Administration

Overview

- ANSP to RMA report for "non-compliance"

- Considerations

- Current process for handling "non-compliance"

- Status of RMA ToR updates

ANSP report to RMA

- **Need to develop common method and process for ANSPs to submit reports of "non-compliance" or "underperformance" to RMAs**
  - **Report format**: ideally pdf-fillable form with pertinent information and performance details
  - **Proposed initial report process**: ANSP report all cases of underperformance within 30 days of report period ending (e.g. by 31 Jan for previous Jul-Dec)
    - May include results of initial ANSP investigation prior to submission

DRAFT concept for report form

PBCS ANSP NON-COMPLIANCE REPORT FORM

Report date	19 February 2018
Period of observed non-compliance	July-December 2017
Reporting air navigation service provider (ANSP)	FAA
Non-compliance type (fleet or individual airframe)	Fleet
ANSP notes	Fleet meets criteria in Anchorage but not Oakland during this monitoring period. Likely experiencing media transition issues in Anchorage due to routes close to multiple VHF coverage areas. May request information from aircraft manufacturer on possible mitigations or submit problem report to appropriate data link reporting agency for further investigation.

ANSP Monitoring Results:

PBCS Monitoring Report

Period: July to December 2017

Color Key:

	Meets criteria
	Accepted but below criteria
	Under criteria

State of Registry	Data Source (FIR)	Operator/Aircraft Type	ADS-C downlink Message Counts	95% RSP 180 benchmark ASP <=90 sec	99.9% RSP 180 benchmark ASP <= 180 sec	CPDLC Transaction Counts (WILCO Received)	95% RCP 240 benchmark ACP <= 180 sec	99.9% RCP 240 benchmark ACP <=210 sec
				Fleet Performance				
CHINA	Anchorage	CCA/B77W	11,921	88.0%	91.2%	19	100.0%	100.0%
CHINA	Oakland	CCA/B77W	8,738	98.0%	99.4%	57	100.0%	100.0%
				Individual airframe performance				

Circulation of ANSP report form

- **Short term**
  - FANS-CRA website in the performance data section
  - Update PBCS contacts to include RMA information for those with airspace responsibilities impacted by PBCS
  - Email to the ANSPs that currently provide monitoring data for the website

- **Longer term**
  - Briefing the form to other ANSPs at upcoming regional meetings such as TIG and RASMAG
 - Add to the appendices of the PBCS manual (edition 3 currently planned for Nov 2019)

Considerations

- RMAs need to obtain current information to help investigate problematic aircraft or operators and ensure they are not using separation standards for which they may not be eligible due to under-performance

- RMAs need to remain in the loop on cases of non-compliance and the investigation results
  - Help develop competency in causes of failure and available mitigations to support performance improvement efforts

- Observed non-compliance may not always lead to impact on approval status

"Non-compliance" now

- **Currently ANSPs are providing monitoring results on www.FANS-CRA.com**

- **For results below 95% requirements, ANSPs have been reporting directly to operators when possible or submitting problem reports to CRA/DLMA**

  - RSP180: 95% within 90 sec

  - RCP240: 95% within 180 sec),

- **This practice will continue as RMA ToRs are comprehensively amended to reflect responsibilities related to PBCS**

ICAO Endorsed Regional Monitoring Agencies
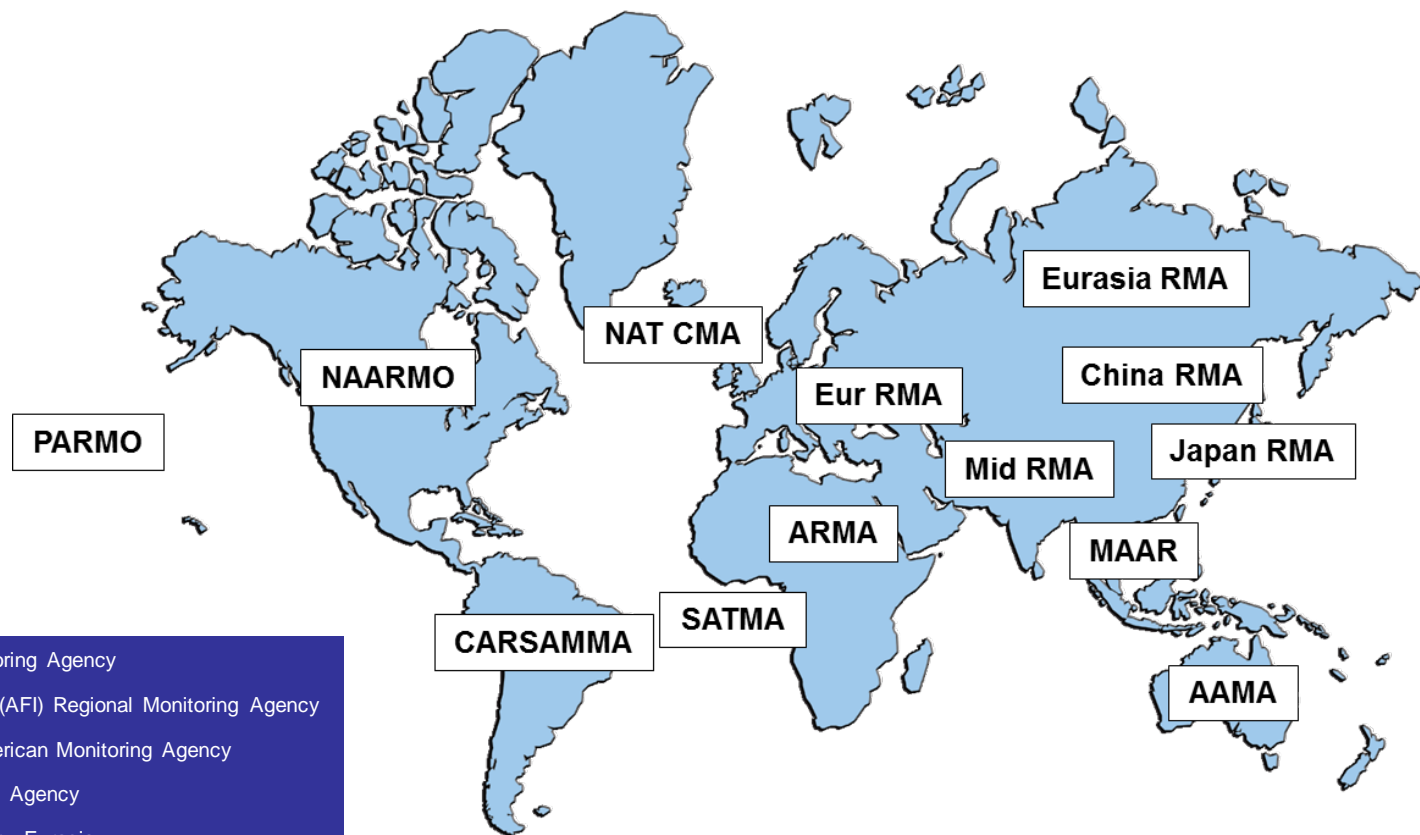
AAMA	Australian Airspace Monitoring Agency
ARMA	African and Indian Ocean (AFI) Regional Monitoring Agency
CARSAMMA	Caribbean and South American Monitoring Agency
China RMA	China Regional Monitoring Agency
EurAsia RMA	Regional Monitoring Agency Eurasia
Eur RMA	European Regional Monitoring Agency
Japan RMA	Japan Regional Monitoring Agency
MAAR	Monitoring Agency for Asia Region
Mid RMA	Middle East Regional Monitoring Agency
NAARMO	North American Approvals Registry and Monitoring Org
NAT CMA	North Atlantic Central Monitoring Agency
PARMO	Pacific Approvals Registry and Monitoring Organization
SATMA	South Atlantic Monitoring Agency

Status of RMA ToR updates

- **NAT CMA –** updated by NAT SPG/53 June 2017
- **EurRMA/EurAsia RMA** – updated by EANPG/59 November 2017
- **NAARMO** – draft NAARMO TOR amendments complete and work already underway – no PIRG to formally modify…
- **Asia-Pacific RMAs**
  - discussed during the recent RASMAG Monitoring Agency Working Group (MAWG/5) meeting held 29 Jan 2017 – 1 Feb 2018
  - agreed that the Asia Pacific RMAs and EMAs would adopt a regional amended Terms of Reference
  - action needs to be coordinated and officially progressed through APANPIRG
  - will be addressed during the next RASMAG meeting scheduled for July 2018 and APANPIRG in September 2018
- Further coordination needed for CARSAMMA, SATMA, ARMA, MIDRMA
  - Upcoming RMA Coordination Group meeting – May 2018
- Ongoing coordination between RMAs

Recent PBCS email to RMAs

- **Reminds RMAs of approaching PBCS implementation on 29 March 2018**
- **Notifies that NAARMO and PARMO are preparing to collect RCP240 and RSP180 approvals from the States of their ICAO responsibility and handles cases of "non-compliance"**
- **Encourages other RMAs to also start collection approvals and preparing to handle "non-compliance"**
- **Identifies challenge of State authority readiness to issue PBCS approvals**
- **Provides:**
  - Updated approval form for collecting and sharing approval information, which includes RCP240 and RSP180
  - PBCS Operational Authorization Guidance developed as supplement to PBCS Manual
  - Draft letter to notify RMA States of responsibility to issue RCP240 and RSP180 approvals
  - Link to FAA operational authorization materials for reference