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SAFE SKIES.
SUSTAINABLE FUTURE.

Flight Inspection in Indonesia

Ensuring Accuracy and Reliability

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Presentation Overview

01 Introduction

- Regulation
- Stakeholders
- Type of Flight Inspection

02 Schedule & Implementation

- Scheduling
- Implementation
- Review and Post Implementation
- Challenge
- Cost Benefit

03 Conclusion

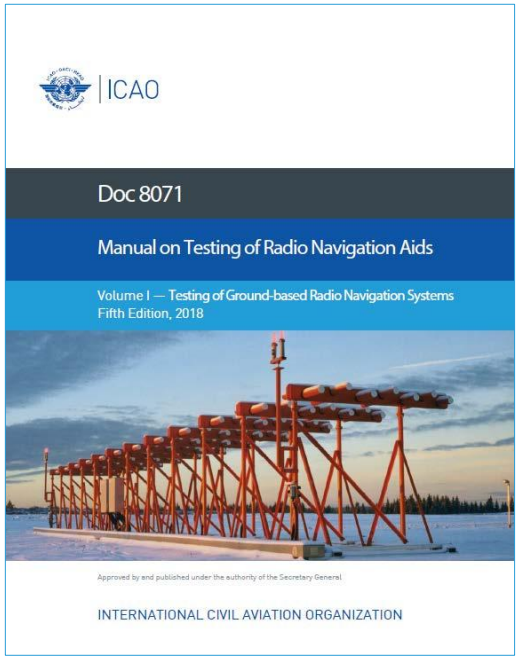
01

INTRODUCTION

Flight inspection ensures the accuracy, reliability, and safety of air navigation systems by systematically evaluating navigational aids in certain periods. This process helps maintain the integrity of navigation aids and ensures safe aircraft operations.

Introduction

Regulation



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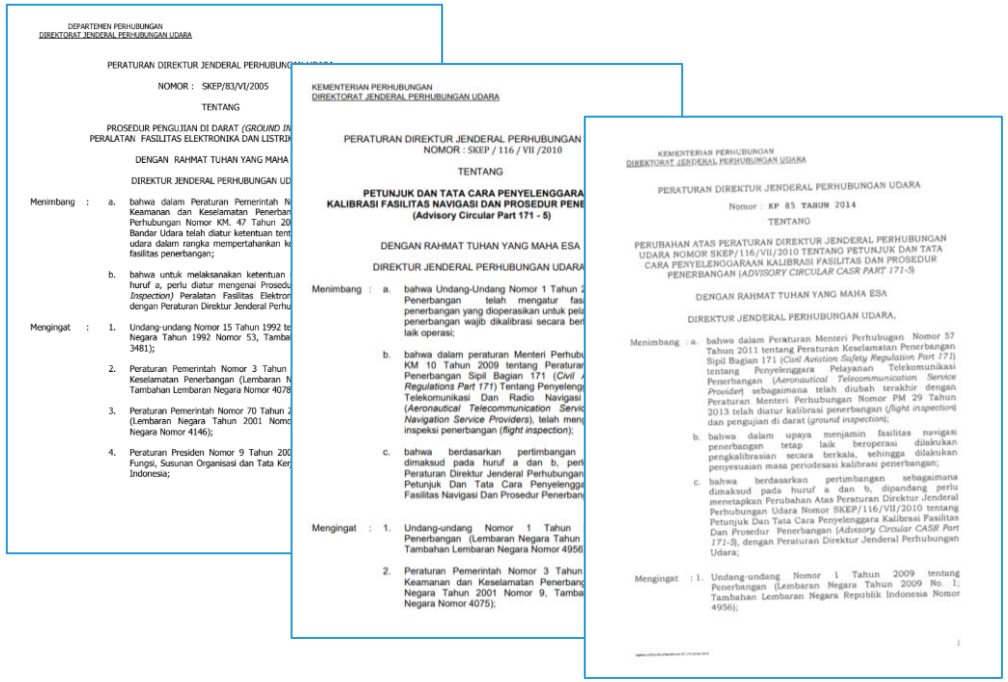


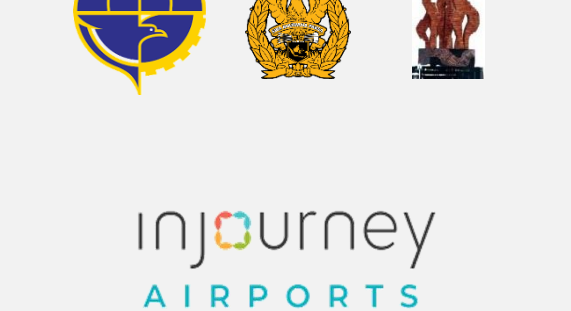
DGCA: SKEP 83/2005, SKEP 116 /2010, KP 85/2014

Introduction

Stakeholders

Flight Inspection Provider

ANSP



Airport Operators

Introduction

Type of Flight Inspection

- **Site Proving Inspection**
- **Commissioning Inspection**
- **Periodic Inspection**
- **Special Inspections**

02

SCHEDULE and IMPLEMENTATION

Effective scheduling and implementation of flight inspection operations are crucial to maintaining the accuracy and reliability of air navigation systems. Proper planning ensures minimal disruption to air traffic while optimizing resource utilization.

Schedule and Implementation

Navigation Facility

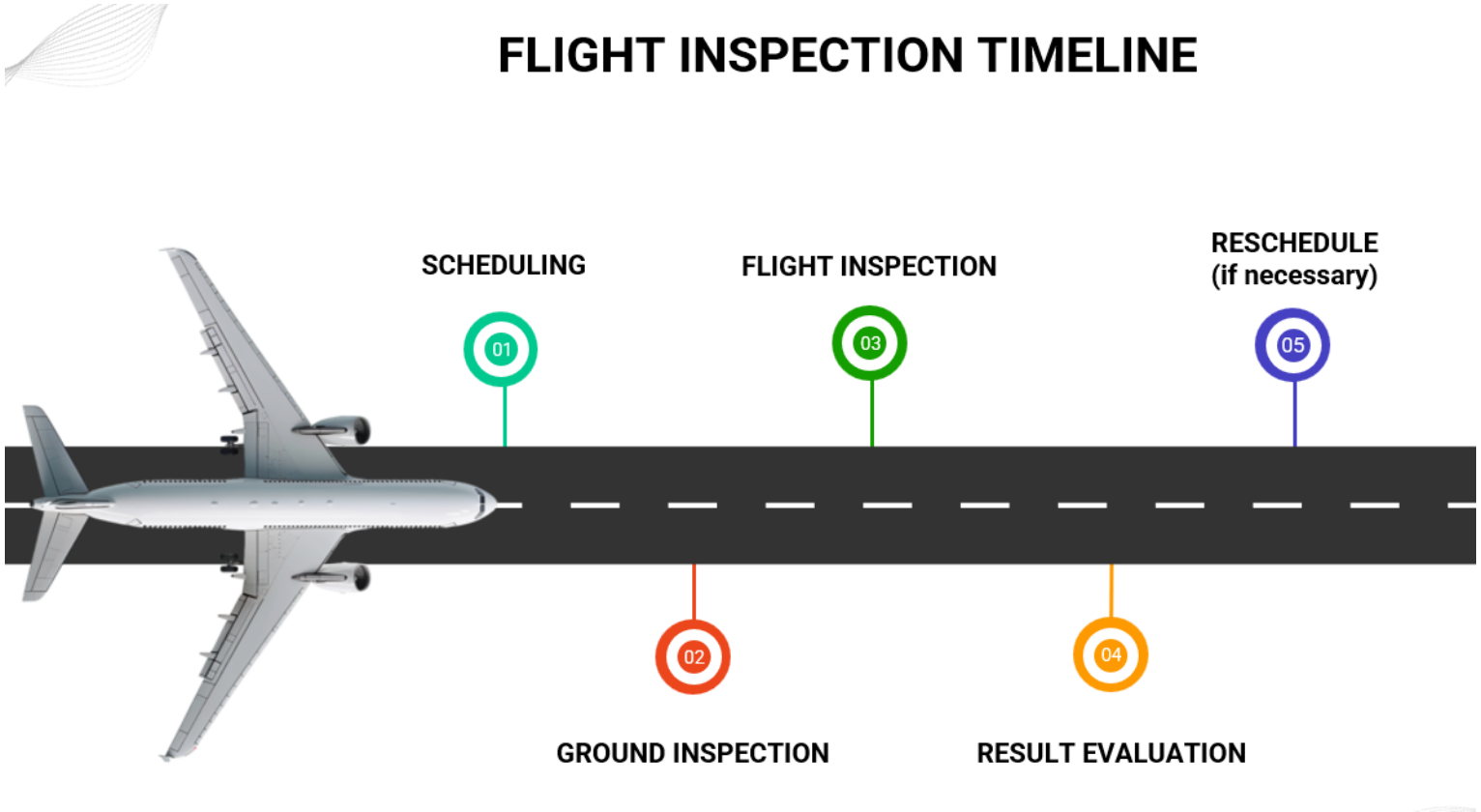
45 ILS
Periodic Flight Inspection
every **6 month**

70 DVOR/DME
Periodic Flight Inspection
every **12 month**

Based on the number of equipment & validity of the previous Flight Inspection
159 Flight Inspections in **40** packages

Schedule and Implementation

Implementation



How we did it

Unoptimized Ferry Flight

Point to Point

How we do it

Optimized Ferry Flight

Multiple Locations in one schedule

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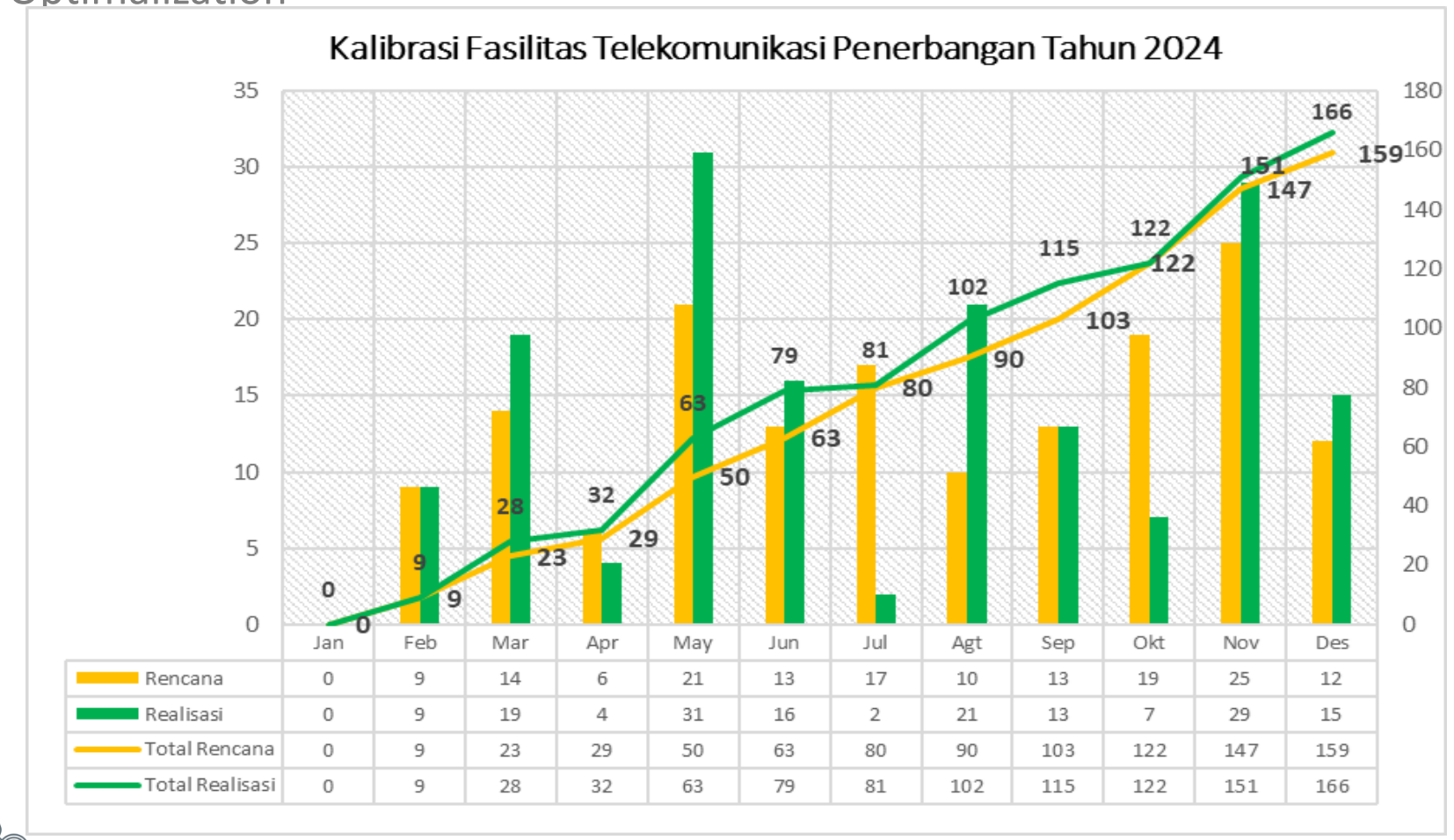
Schedule and Implementation

Optimalization

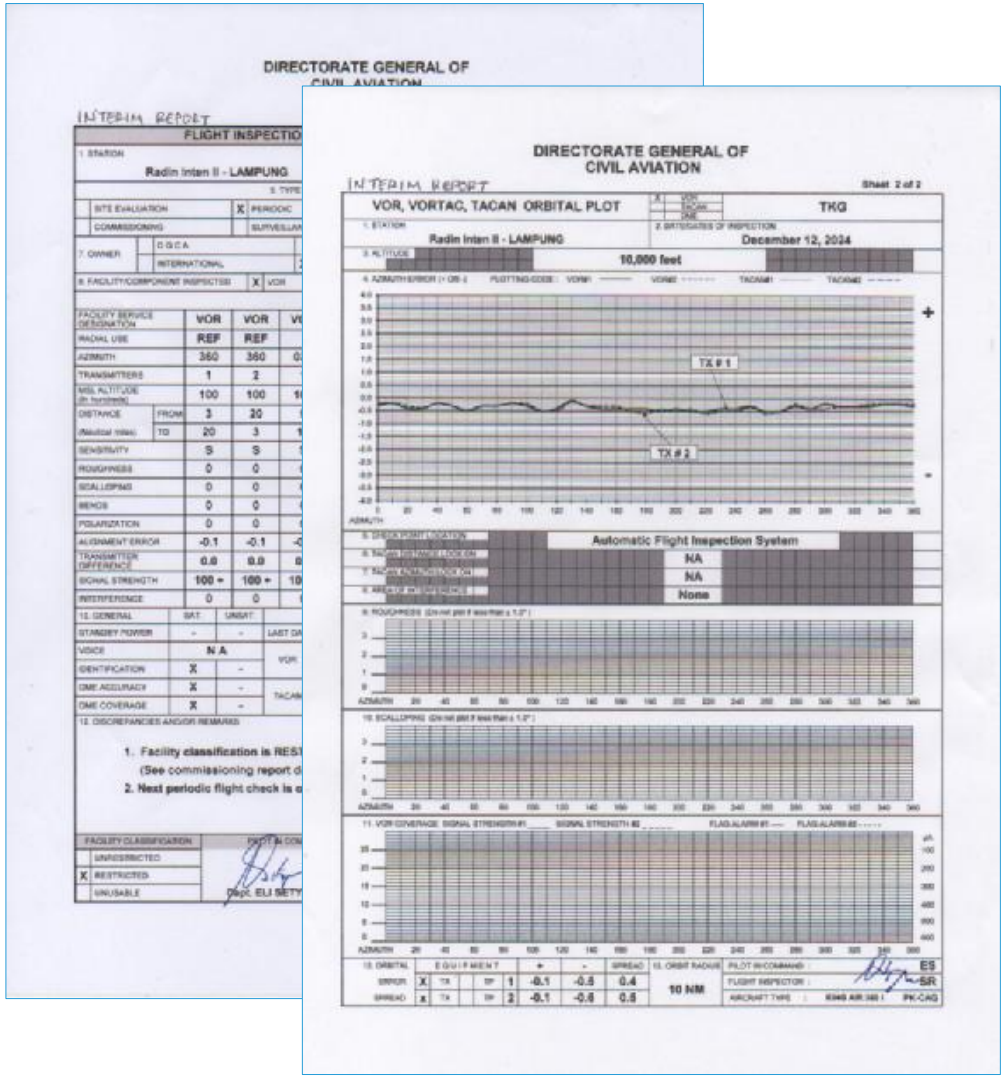


	Jan	Feb	Mar	Apr	May	Jun	Jul	Agt	Sep	Okt	Nov	Des
Rencana	0	9	14	6	21	13	17	10	13	19	25	12
Realisasi	0	9	19	4	31	16	2	21	13	7	29	15
Total Rencana	0	9	23	29	50	63	80	90	103	122	147	159
Total Realisasi	0	9	28	32	63	79	81	102	115	122	151	166

Schedule and Implementation

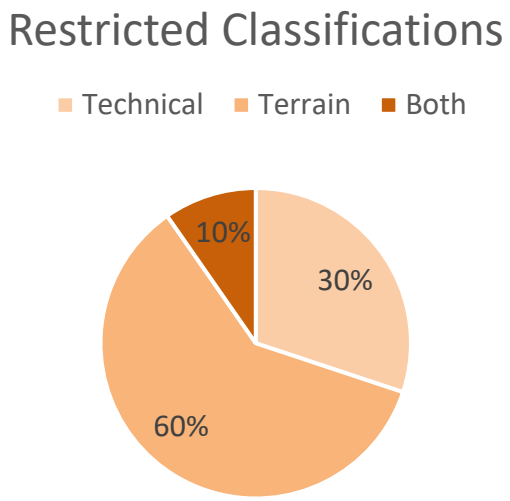
Post Flight Inspection

- Unrestricted
- Restricted
- Unusable & Terminated



Schedule and Implementation

Post Flight Inspection



Schedule and Implementation

- Post Flight Inspection

Data Analysis & Reporting

- Review recorded flight inspection data to assess system accuracy and performance.
- Generate detailed reports highlighting compliance with regulatory standards.
- Identify any deviations or anomalies requiring corrective action.

Stakeholder Coordination

- Share findings with relevant authorities, including the ANSP itself, Airport Operators, and Regulators.
- Discuss necessary adjustments or recalibrations for navigation aids.

Corrective Actions & Maintenance

- Implement corrective measures for any identified discrepancies.
- Schedule maintenance or recalibration of affected systems.
- Verify corrective actions through follow-up inspections if necessary.

Documentation & Compliance

- Implement corrective measures for any identified discrepancies.
- Schedule maintenance or recalibration of affected systems.
- Verify corrective actions through follow-up inspections if necessary.

Continuous Improvement

- Conduct a review meeting to evaluate the efficiency of the inspection process.
- Identify opportunities for process enhancements and technology upgrades.
- Incorporate lessons learned into future flight inspection planning.

Schedule and Implementation

Challenges

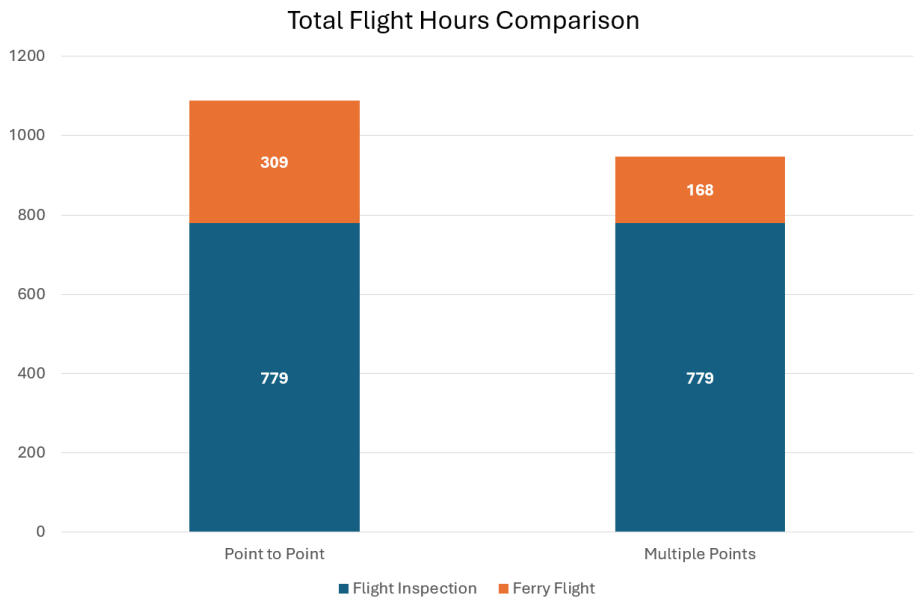
Air Traffic Coordination – Requires precise scheduling in busy airspace.

Aging Infrastructure – Some navaids require frequent recalibration.

Equipment Sensitivity – High precision needed; even minor errors can impact results.

Schedule and Implementation

Reduced Ferry Flight Hours



13%

Benefits

Maintain Regulatory Compliance

No changes in Regulatory Compliance

Reduced Cost

Reduced cost by almost USD 700.000 in a year

Reduced Environmental Impact

Reduces carbon emissions by minimizing inefficient ferry flights

03

CONCLUSION

- **Ensuring Compliance & Safety**
- **Effective Scheduling & Implementation**
- **Addressing Challenges**
- **Balancing Cost & Benefits**
- **Continuous Improvement**

Thank You

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