Airbus Prosky
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Step 2: Data Collection

ICAO AFPP Workshop

3rd – 6th November 2015

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Initiation

Tasks

Roles and outputs

Conclusion

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Tasks

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Data collection 1/2

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The designer must collect the following data from recognized sources, validate for accuracy, resolution, integrity, reference geodetic datum and effective dates, and incorporate them into the design documentation:

- Terrain data: electronic raster (DTM, DSM) and associated accuracy, paper map etc

- Obstacle data: man-made and natural with their coordinates and elevation;

(Sources : AIP, Data Survey)

- Aerodrome data, e.g. ARP and runways) coordinates and elevation, lighting, magnetic variation and rate of change, weather statistics, altimeter source;

- Aeronautical data: airspace structure, classifications (controlled, uncontrolled, airspace Class), airways/air routes, altimeter transition altitudes/flight levels, neighbouring instrument procedures,

- Navaid data: coordinates, elevation, service volume, frequency, identifier,

- Existing significant points to local navigation.

Numerical Data

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Data collection 2/2

❑ **ATC -** Compatibility of the IFP with existing ATS procedures

❑ **Operators**

- Need to shorten trajectories;
- Enhanced guidance;
- Availability of vertical guidance;
- Lower minima; and
- Enhanced flyability

❑ **Airspace design**

- Constraints given by existing airspaces;
- Requirements for additional / restructured airspace; and
- Danger / restricted and prohibited areas

❑ **Environmental constraints**

- Avoidance of populated areas;
- Avoidance of sensitive areas); and
- Noise abatement procedures, when applicable

Operational Data

+ Planning

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Data collection – All this!

User requirements

Data / Meta-data

Data quality requirement

Data acquisition

Data Sources & supplier status

Data Verification & Validation

Documentation

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State Role and outputs

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Data collection inputs and outputs

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☐ <u>Inputs</u>

- All stakeholder requirements
- Previous designs
- Data from State recognized sources
- All other data

☐ <u>Outputs</u>: Preliminary work file containing

- Summary of stakeholders requirements
- Summary of all data.

Role of State in Data collection

❑Owners of this step:

- Designer

- ATM, AIS

- Stakeholders

- Data sources (e.g. surveyors, charting agencies, MET offices, etc.)

❑ State is responsible for AIP data

❑ State is expected to approve / evaluate newly collected data. It is preferred to assess compliance at this stage already.

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Conclusion

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Initiation

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Any Questions?

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