

Go Direct™ Services

Honeywell



**Unlock your aircraft capabilities
for Required Navigation
Performance (RNP) operations**

As a FAA approved consultant, Honeywell helps simplify the Required Navigation Performance Special Aircraft and Aircrew Authorization Required (RNP SAAAR) approval process with Go Direct Services.



As a key component of the FAA's next-generation performance-based navigation system, RNP SAAAR procedures allow aircraft to fly more precise approaches and departures, increasing operational efficiency while reducing operating costs, noise and emissions. To help gain FAA approvals for RNP SAAAR, Honeywell provides a full range of consulting services, including operational approvals, navigation data validation, and monitoring program to quickly guide operators through the FAA operational approval process and maintain compliance with all regulations.

RNP Approaches

For decades, modern aviation has relied on ground-based navigation aids, but recent industry developments are driving the adoption of RNP techniques using global positioning system (GPS) as a method of increasing capacity and improving traffic flow. RNP enables aircraft to fly more precise approaches, providing benefits for lower minima operations, more

favorable routing in congested or terrain-challenged and special use airspace, noise abatement compliance, improved safety, and lower operating cost.

A combination of onboard navigation technology, precise sensors and the GPS satellite network keep aircraft within a tightly specified airspace corridor. Aircraft can precisely fly a wide variety of desired flight paths including curved paths to avoid terrain and obstacles, thereby overcoming limitations of conventional instrument procedures.

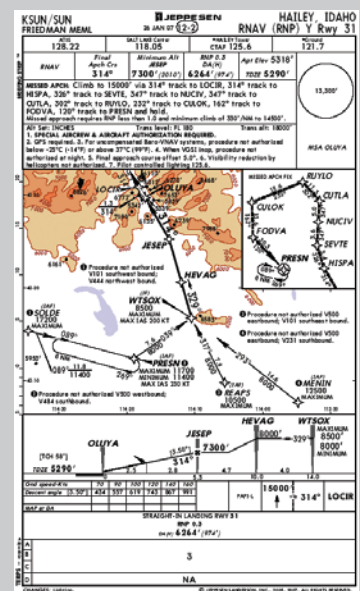
Operational Approvals

Per FAA Advisory Circular 90-101, operators are required to obtain approvals from the FAA to fly RNP approach procedures. Operators would need to show compliance by meeting the specific requirements for equipment, flight operations, and navigation database integrity. Additionally, aircraft must be equipped with FMS, IRS, GPS, EGPWS with terrain and obstacle alerting, and flight management system software to meet the minimum aircraft requirements needed to conduct flight operations with RNP levels <0.3 nm.

RNP SAAAR Approach Procedure

Sun Valley Idaho Hailey Airport (KSUN) RNAV (RNP) Runway 31

- Lowest approach minimums give highest availability to Sun Valley (2% improvement over the GPS RNAV approach)
- Improved flight path aligns closer to runway (5 deg versus 14 deg for the GPS RNAV approach)
- RNP 0.3 guided missed approach path provides low minimums with added safety





Go Direct Services

Go Direct provides a full line of services to not only help ease the burden of the FAA approval process, but also to simplify the implementation of RNP SAAAR into your flight operations. Aircraft operators that obtain full operational approval will be able to fly all the FAA created public RNP SAAAR approaches.

- **Consultancy** – technical expertise and guidance to assist with the RNP SAAAR approval process for compliance with AC 90-101 regulations, providing the most timely and efficient integration of requirements into current flight operations.

- **Navigation Database Validation** – comprehensive validation process that is synchronized with the Navigation Data production process to ensure that RNP SAAAR procedures are validated in-cycle for each new navigation database update.
- **Monitoring Program** – provides record keeping of operators RNP SAAAR operations per AC 90-101 requirements.
- **Aircraft Equipment** – Honeywell offers both hardware and software upgrades to meet all the RNP SAAAR requirements in accordance with AC 90-101 for your specific aircraft.

Operator Benefits

- Better access to terrain-challenged airports, and special use airspace
- Enables parallel runway, converging and adjacent airport operations
- Improved access to business airports in proximity to high traffic airports
- Lower Minima resulting in fewer weather-related delays, and diversions
- Better access for environmental concerns
- Reduced flight time due to optimized routing
- Smaller environmental footprint due to reduced noise and fuel use
- Enables early, guided turns on missed approach
- More reliable, repeatable flight paths

RNP SAAAR Required Equipment

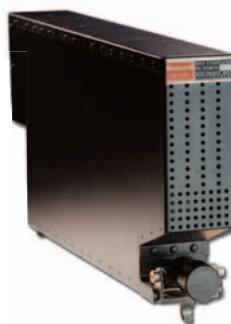
Enhanced Ground Proximity Warning System (EGPWS)



Global Positioning System (GPS)



Inertial Reference System (IRS)



Flight Management System (FMS)

Honeywell Aerospace

Honeywell is a leading global provider of integrated avionics, engines, systems and service solutions for aircraft manufacturers, airlines, business and general aviation, military, space and airport operations.

For more information on Honeywell Aerospace, visit us online at www.honeywell.com/aero

Find Out More

Visit us online at www.honeywell.com/godirectservices

Honeywell Aerospace

1944 East Sky Harbor Circle
Phoenix, AZ 85034
U.S. Toll Free: 1.800.601.3099
International Tel: 602.365.3099
EMEA Toll Free: 00.800.601.3099
EMEA Direct Dial: 420.234.625.500
www.honeywell.com

A60-1035-000-001
November 2008
© 2008 Honeywell International Inc.

The Honeywell logo is displayed in a bold, red, sans-serif font.