

**BEBS 2A PHL PBN PAIRED SOIA APPROACHES RWY 9/27**

**Candidate Scenario Description:** Paired aircraft SOIA type approach to PHL RWY 9/27

**Theme:** Paired approach to parallel runways to continue with VFR arrival rates to less than visual conditions using ILS or PBN for offset runway.

<p><b>Operational Description</b></p>	<p>Concise description of Operational Scenario</p>	<p>This is a Simultaneous Offset Instrument Approach (SOIA) for paired aircraft approaches to parallel runways separated by 1400 ft. at PHL.</p> <p>The operation can be performed either with or without a Final Monitor Aid (FMA) using existing aircraft RNAV (GPS) capability and eventually an RNP 0.3 capability to the offset approach runway to obtain lower ceiling minimums.</p> <p>This is an off-set approach path with lower minimums than existing visual approach minimums to eventual visual separation procedures to a landing on RWYs 9L/R and 27L/R provided by ATC and/or pilot.</p> <p>There are no airspace or airport conflicts created or avoided. There is adequate PHL airspace enabling long straight-ins for all configurations.</p> <p>During periods of 1200 ft ceilings and Visibility 3-miles. Initial implementation with dual off-set ILS followed by RNAV (GPS) RNP w/RF legs for the offset.</p>
<p><b>Target Operational Time Frame</b></p>		<p>2013-2014</p>
<p><b>Technology (equipment) Targeted</b></p>	<p>Technology or equipment associated with this operational candidate</p>	<p>PBN -- RNAV RNP 0.3 w/RF leg is enabled by:</p> <ol style="list-style-type: none"> <li>1. GPS with Approach Capability, or</li> <li>2. RNP capable FMC with multi-scan DME/DME and GPS sensors, and</li> <li>3. Advanced NAV Display capable of RF legs</li> </ol>
<p><b>Impact on equipped</b></p>		<ul style="list-style-type: none"> <li>• Provides dual IAPs with vertical</li> </ul>

and capable a/c		guidance and lower minimums.
Impact to non-equipped or not capable a/c		<ul style="list-style-type: none"> <li>• Non-equipped will be restricted to ILS RWY</li> <li>• Minimal Impact to non-equipped aircraft using ILS to non-PBN Rwy</li> </ul>
Impact on NAS efficiency or capacity		<ul style="list-style-type: none"> <li>• Improved capacity during lower weather minimums</li> </ul>

SOIA Example

