

BEBS 2C EWR PBN SOIA Paired APPROACHES RWY 4L

Candidate Scenario Title: Paired aircraft SOIA type approach to EWR RWY 4L

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>Operational Description</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 950' at EWR.</p> <p>This approach can be performed with or without Final Monitor Aid (FMA) using existing RNAV (GPS) aircraft capability and eventually an RNP 0.3 capability to the offset approach runway. FMA supports lower minimums.</p> <p>This is an approach with lower minimums than existing visual approach minimums. Visual separation procedures are used for landing on RWYs 4L/R and provided by ATC and/or pilot, when possible.</p> <p>There are interdependencies with configurations at EWR, TEB and LGA. Ideally, LGA arrivals will be on RWY 22 and departures on RWY 13. There is, however, adequate airspace for longer straight-ins to RWY 4L/R. The RWY 4L/4R missed approach segment conflicts need to be addressed.</p> <p>Targeted for 1200 ft ceilings and Visibility 3-4 miles. Implementation in phases; current ILS/LDA, followed by RNAV (GPS), then eventually RNP 0.3 w/RF legs for the offset.</p>
<p>Target Operational Time Frame</p>		<p>2012-2015</p>
<p>Technology (equipment) Targeted</p>	<p>Technology or equipment associated with this operational</p>	<p>PBN -- RNAV RNP 0.3 w/RF leg is enabled by:</p>

	candidate	<ol style="list-style-type: none"> 1. GPS with Approach Capability, or 2. RNP capable FMC with multi-scan DME/DME and GPS sensors, and 3. Advanced NAV Display capable of RF legs
Impact on equipped and capable a/c		<ul style="list-style-type: none"> • Provides dual IAPs with vertical guidance and lower minimums.
Impact to non-equipped and not capable a/c		<ul style="list-style-type: none"> • Non-equipped will be restricted to ILS RWY.
Impact on NAS efficiency or capacity		<ul style="list-style-type: none"> • Improved capacity during lower weather minimums

SOIA Example

