Southeast Florida Passenger Rail Update
SE Florida ~ Passenger Rail Projects

LEGEND

- **CSX** (existing Amtrak route)
- **CSX/FEC** (proposed new Amtrak route)
- **CSX** (existing Tri-Rail route)
- **CSX/FEC** (proposed new commuter rail ~ "Tri-Rail Coastal Link" route)
- **FECI** (proposed "All Aboard Florida" route)
“All Aboard Florida” Proposal (FEC Industries)

Intercity Commuter Express Rail

All Aboard Florida, the first privately owned, operated and maintained intercity passenger rail system in the nation, will give Florida’s residents and visitors a new and reliable transportation solution between Central and South Florida.

- THOUSANDS OF JOBS
- 100% PRIVATE
- PRIVATELY OWNED, OPERATED AND MAINTAINED
- HOURLY SCHEDULED SERVICE
- 3 HOUR TRAVEL TIME
- ADVANCED, CONVENTIONAL TECHNOLOGY

- Orlando
- West Palm Beach
- Fort Lauderdale
- Miami
“FEC/Amtrak” Proposal (FDOT)
Intercity Passenger Rail

**PLANNED NEW STATIONS (East Coast)**
- St Augustine
- Daytona Beach
- Titusville
- Cocoa (Port Canaveral)
- Melbourne
- Vero Beach
- Fort Pierce
- Stuart

**EXISTING STATIONS (East Coast)**
Jacksonville .... West Palm Beach, Delray Beach, Deerfield Beach, Fort Lauderdale, Hollywood, Miami
- Miami International Airport/MIC

*Other Existing Stations include Orlando, Tampa, Winter Park, Sanford, Lakeland, and more.*
Amtrak/FEC – Key Updates

• **Funding for Rail Connections (Sept 2013)**
  - $13.750M TIGER grant to FDOT
  - (Partners: FDOT, SFRTA, FEC, CSXT)
  - Funds Northwood & Iris Connections

• **Miami Intermodal Center (underway)**
  - Resolving Amtrak Location
  - Completion in 2014
Coastal Link – Key Updates

• Memorandum of Understanding (May 2013)
• PB MPO Formal Update (Dec 2013)
  - Resolution to enable project to advance into “Project Development” phase
  - System Schedule Discussions

• Public/Private Negotiations (underway)
  - FDOT, SFRTA, FECI
  - The Big Question: Access Fees

• Financing Options (underway)
AAF – Key Updates

• Commitment to Fund Safety Improvements at Grade Crossings (Sept 2013)
  - Local Gov’ts to continue to maintain

• Environmental Impact Statement (underway)
  - Work underway – public meetings late 2013
  - Anticipate completion (permit) – Spring 2014

• Construction Activity (2014)
  - Southern Segment – 2014?
  - Northern & East/West Segments – 2015?
Quiet Zone Update

TREASURE COAST REGIONAL PLANNING COUNCIL
Prepared for Palm Beach Metropolitan Planning Organization
Quiet Zones - Actions Underway

• Public/Private “QZ Working Group”
  - PB MPO, League of Cities, TCRPC, FECI

• Federal Railroad Administration
  - Technical Training (Fall 2013)
  - Continued Dialogue

• Florida Dept of Transportation
  - Diagnostic Field Reviews (Fall 2013)
  - General Planning Cost Estimates (Fall 2013)
Quiet Zones:
Technical Training Workshop
August 27 & 28, 2013

André Goins, P.E.
Rail Operations & Programs Administrator
FDOT Rail Office

Tom Drake
Crossing/Trespasser Regional Manager
FRA Office of Safety
Other Quiet Zone Issues …

• What is a “Sealed Corridor”?

• Timing of Quiet Zone Improvements (Synchronization with AAF)

• Coordination with “Tri-Rail Coastal Link”

• QZ Funding Options
  ◦ Local ? ◦ Federal ?
  ◦ State ? ◦ Other ?
New Quiet Zones (per FRA)

• All public crossings must have:
  – Gates
  – Lights,
  – Constant Warning Time (where practical)
  – Power Out Indicator

• The inventory information for each crossing in the QZ must be accurate and complete prior to establishing the QZ
## Sample Quiet Zone Requirements

### “Supplemental Safety Measures”

- Four-Quadrant Gate Systems
- One Way Streets with Gates
- Gates with Medians or Channelization Devices
- Wayside Horns
- Temporary Closures
- Permanent Closures

### “Alternative Safety Measures”

#### Non-Engineering
- Programmed enforcement
- Public education
- Photo enforcement

#### Engineering
- Other non-specified measures (e.g. improving sight distance, improving crossing geometry)
Safety Improvements vs. Quiet Zones: Sample Grade Crossing – Example #1

<table>
<thead>
<tr>
<th>EXISTING CONDITION</th>
<th>EXISTING SAFETY REQUIREMENTS (from FRA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Roadway Lanes</td>
<td>2 Gates, Signs, Flashing Lights</td>
</tr>
<tr>
<td>Single Railroad Track</td>
<td>Horn Required</td>
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</table>

<table>
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<tr>
<th>ALL ABOARD FLORIDA IMPROVEMENTS (proposed by FECI)</th>
<th>ADD’L SAFETY REQUIREMENTS (from FRA)</th>
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<tr>
<th>NEW “BASELINE” CONDITION</th>
<th>QUIET ZONE REQUEST (by City)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Roadway Lanes</td>
<td>4 Gates, Signs, Flashing Lights</td>
</tr>
<tr>
<td><strong>Double RR Track</strong></td>
<td><strong>Median</strong></td>
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Quiet Zone Established
## Safety Improvements vs. Quiet Zones: Sample Grade Crossing – Example #2

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<td>4 Gates, Signs, Flashing Lights, <strong>Median</strong></td>
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</table>

**Quiet Zone Established**
Safety Improvements vs. Quiet Zones: Sample Grade Crossing – Example #3

**EXISTING CONDITION**
- 4 Roadway Lanes
- Single Railroad Track

**EXISTING SAFETY REQUIREMENTS (from FRA)**
- 2 Gates, Signs, Flashing Lights
- Horn Required

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**ALL ABOARD FLORIDA IMPROVEMENTS**
(proposed by FECI)
- 4 Roadway Lanes
- **Double Railroad Track**

**ADD’L SAFETY REQUIREMENTS (from FRA)**
- **4 Gates**, Signs, Flashing Lights
- Horn Required

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**NEW “BASELINE” CONDITION**
- 4 Roadway Lanes
- Double RR Track

**QUIET ZONE REQUEST (by City)**

**ADD’L SAFETY REQUIREMENTS (from FRA)**
- 4 Gates, Signs, Flashing Lights

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**Quiet Zone Established**
**Safety Improvements vs. Quiet Zones: Sample Grade Crossing – Example #4**

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**ALL ABOARD FLORIDA IMPROVEMENTS** *(proposed by FECI)*

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**NEW “BASELINE” CONDITION**

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<td>4 Gates, Signs, Flashing Lights</td>
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<tr>
<td>Must close a nearby crossing</td>
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Quiet Zone Established
Quiet Zone “District” Example

Types of SSM/ASM

- ▲ 3 Quadrant Gates with Median
- □ 4 Quadrant Gates
- ★ Closure
- ○ Median

FRA approved safety improvements include supplemental safety measures (SSMs) and alternative safety measures (ASMs).

SAFETY IMPROVEMENTS DESIGNED BY SRF FOR FARGO-MOORHEAD METROPOLITAN QUIET ZONE
Other Challenges …

• **Marine Navigation / Bridge Impacts**
  - Loxahatchee River bridge
  - St. Lucie River bridge
  - Part of Environmental Impact Statement
### Possible Quiet Zone Timeline

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<tr>
<th>2013</th>
<th>2015</th>
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- **FDOT General Cost Estimates**
- **FDOT Diagnostic Field Reviews**
- **FDOT QZ Planning Evaluations**
- **Local Governments – QZ Reviews, Prioritization & Funding Options**
- **MPO, TCRPC – Review & Pursuit of Non-Local Funding Options**
- **Tri-Rail Coastal Link – Service Concept & FECI Negotiations**
- **“Project Development” Phase Project Financing**
- **FECI/AAF - Environmental Permits Initial Construction – Southern Segment**
- **Engineering & Design Work Construction Activity**
Kim DeLaney, Strategic Development Coordinator
Treasure Coast Regional Planning Council
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