

# 2014 FRA Rail Program Delivery



## Decision Making During Project Development

# FRA Office of Engineering and Project Development



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# **EXPECTATIONS:**

## **What does FRA expect from Grantees?**

- **Achieving Service Outcomes (SOA)**
  - Frequency, Run Time, and Reliability
- **Satisfying Terms and Conditions of Cooperative Agreement with FRA**
- **Accountability/Project Controls**
- **Spirit of Partnering**

**Grantee makes DECISIONS to align with these.**

# Is the Grantee ready to BUILD?

- **Cooperative Agreement with FRA**
- **Deliverables req'd by Coop. Agreement**
- **Preliminary Engineering Approval**
  - FRA requires sign-off on project configuration
- **Final Design Acceptance**
  - In alignment with Cooperative Agreement and SOA

# Project Development Stages

## Planning/Conceptual Engineering

- Alternative Analysis Report
- Conceptual Engineering
- Operations Modeling
- Feasibility Studies
- Service Development Plans
- Equipment: Technical Specifications

## Preliminary Engineering

- Preliminary Engineering Drawings and Specifications
- Preliminary Construction Cost Estimate
- Preliminary Project Schedule
- Draft As-Is Survey
- Operations Modeling (PE)
- Track, Signal and Crossing Configuration
- Project Management Construct. Documentation
- Design/Build Program Plan
- Detailed Project Work Plan
- Equipment: Preliminary Drawings and Specifications
- Safety Requirements

## Construction

- Project Management Plan (PMP)
- Quarterly Monitoring Reports
- Project Notifications
- Baseline Documentation
- Inspections (Site Visits)

## Final Design

- Final Design Set (Drawings & Specifications)
- Construction Cost Estimate (FD)
- Detailed Construction Schedule
- Right-of-Way (ROW) and Relocation Plans
- Detailed Project Work Plan
- Project Management Plan (PMP)
- Equipment: Final Design Set
- Safety Requirements (FD)



# **Planning/Conceptual Engineering**

- **Alternative Analysis Report**
- **Conceptual Engineering**
- **Feasibility Studies**
- **Service Development Plans**
- **Equipment: Technical Specifications**

# Preliminary Engineering

- Preliminary Engineering Drawings and Specifications
- Preliminary Construction Cost Estimate
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- Operations Modeling (PE)
- Track, Signal and Crossing Configuration
- Project Management Construct. Documentation
- Design/Build Program Plan
- Detailed Project Work Plan
- Equipment: Preliminary Drawings and Specifications
- Safety Requirements

# **Key Decision**

## **Which Project Delivery Method? Selection and Contract Packaging**

**Design, Bid, Build  
Design-Build**

# Final Design

- **Final Design Set (Drawing and Specifications)**
- **Construction Cost Estimate (FD)**
- **Detailed Construction Schedule**
- **Right-of-Way (ROW) and Relocation Plans**
- **Detailed Project Work Plan**
- **Project Management Plan (PMP)**
- **Equipment: Final Design Set**
- **Safety Requirements (FD)**

## Construction

- Project Management Plan (PMP)
- Quarterly Monitoring Reports
- Project Notifications
- Baseline Documentation
- Inspections (Site Visits)

# **How does FRA assist in getting this done?**

## **Oversight and Technical Assistance to Grantees**

- **Kickoff Meeting**
- **Over the Shoulder Reviews**
- **Risk and Value Engineering**
- **Policies and Procedures**
- **MTAC Contractors**



**Comments, Questions?**