

FAA Screening Information Request (SIR)

Unleaded Avgas

Presented to: ASTM Aviation Fuel Subcommittee

By: FAA Fuels Program Office, AIR-20

Date: December 9, 2013



Federal Aviation
Administration



Background

- **FAA SIR DTFACT-13-R-00015**
- **Issued June 10, 2013**
- **Purpose:**
 - to solicit candidate unleaded avgas formulations for testing to identify the most viable replacements for the existing 100LL avgas with the least impact on the existing fleet of piston aircraft and fuel availability.



Background

- **SIR Revised December 6, 2013**
 - Added Appendix 2
 - Pre-Screening Data Submission Template
 - Feasibility Assessment Limited to USA Only
 - FAA Option to Request More than 10,000 gals for Phase 2
- **See Next Slide**



How to Find New SIR Revision

<https://faaco.faa.gov/index.cfm/announcement/view/15435>



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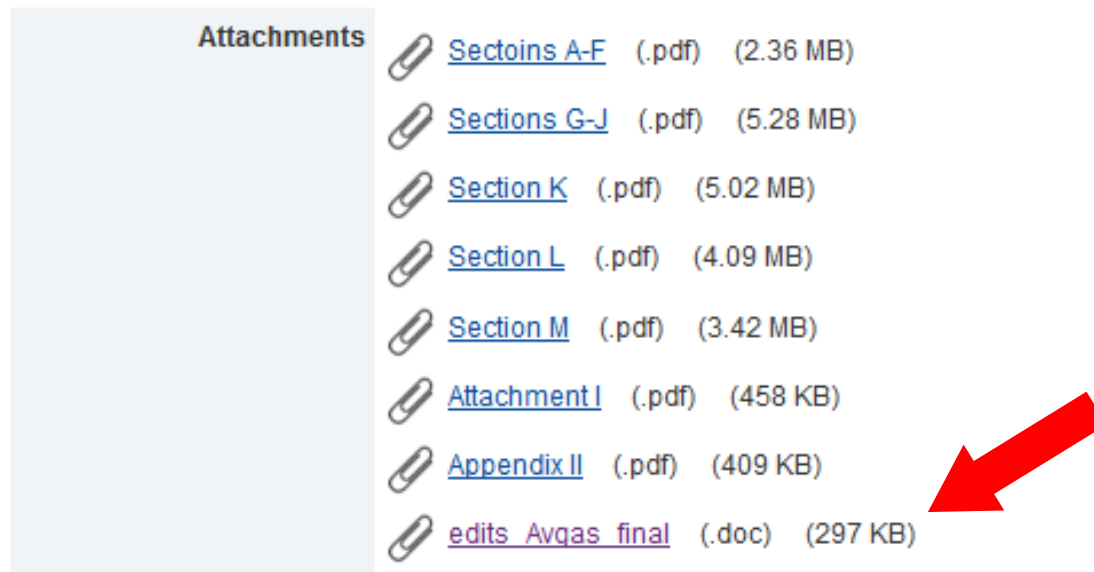
Announcement - View

History		
correction	DTFACT-13-R-00015-0002	12/06/2013 12:29 PM
amendment	DTFACT-13-R-00015-0002	12/06/2013 12:25 PM
amendment	DTFACT-13-R-00015-0001	11/18/2013 09:29 AM
original	DTFACT-13-R-00015	06/10/2013 14:50 PM



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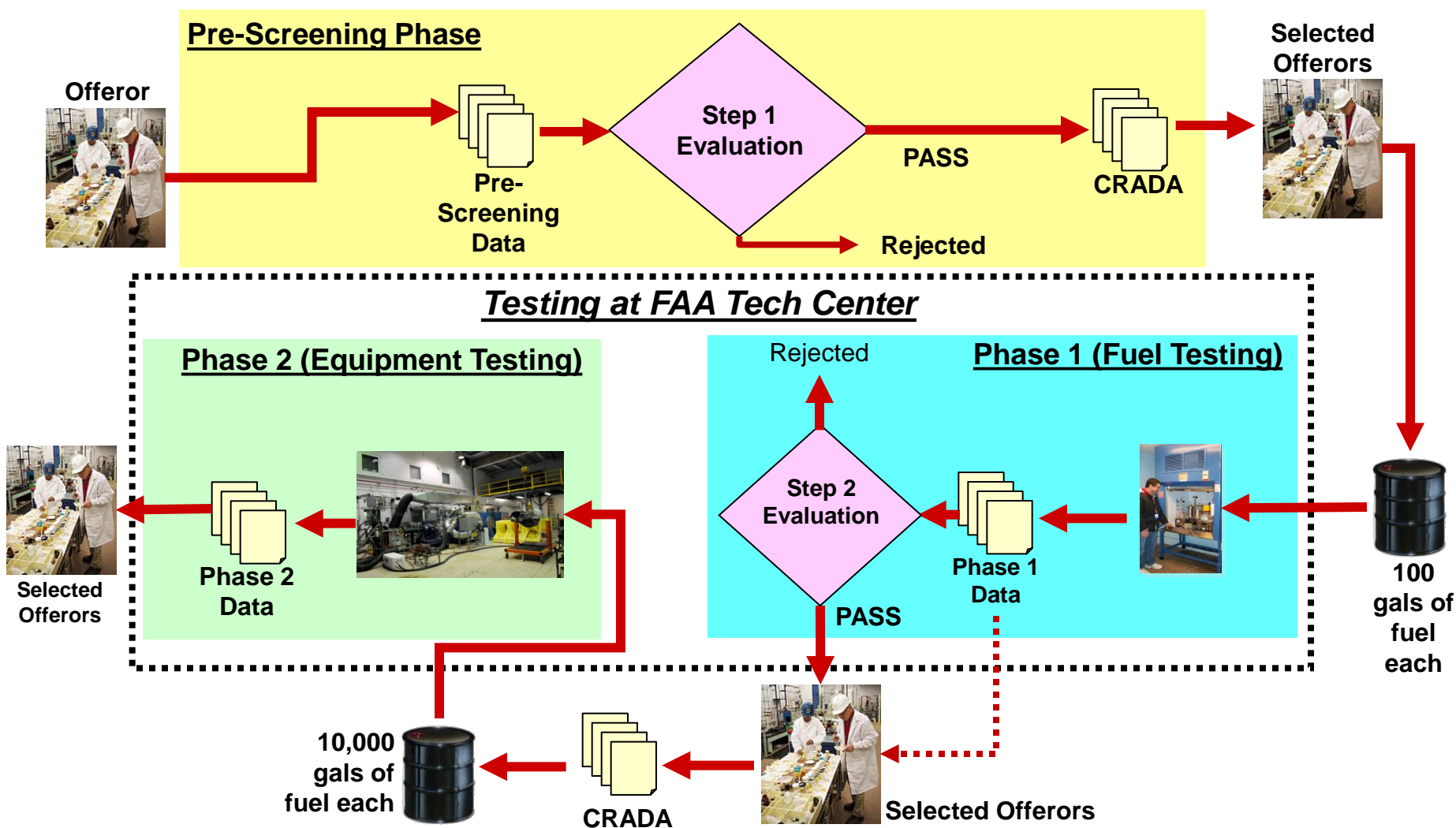
<https://faaco.faa.gov/index.cfm/announcement/view/15435>

DTFACT-13-R-00015 1

49 SOLICITATION, OFFER AND AWARD		1. THIS CONTRACT IS A RATED ORDER <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		RATING <input type="checkbox"/>	PAGE 1	OF PAGES 39
2. CONTRACT NO.	3. SOLICITATION NO. DTFACT-13-R-00015		THIS IS A: Small Business Set-Aside <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		5. DATE ISSUED 06/10/2013	6. REQUISITION/PURCHASE NO. N/A
7. ISSUED BY: FAA William J. Hughes Technical Center Acquisition Services Sub-Team, AAQ-620/LM Atlantic City International Airport, NJ 08405			8. ADDRESS OFFER TO (If other than Block 7) Same as block no. 7.			
SOLICITATION						
9. Offers in original and 3 copies for furnishing the supplies or services in the Schedule will be received at the place in the depository specified in Item 8, or if hand-carried located in FAA Wm. J. Hughes Technical Center, Contracts Branch, Tech Bldg., 4 th floor., Atlantic City Int'l Airport, NJ 08405 Until <u>4 p.m.</u> local time <u>7/1/2014</u> <i>(Hour) (Date)</i> *See Section L for detailed submission requirements CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L.						
10. FOR INFORMATION CALL:	A. NAME LORI MCLAUGHLIN			B. TELEPHONE NO. (Include area cod) (NO COLLECT CALLS) (609) 485-5174		



SIR Test Plan



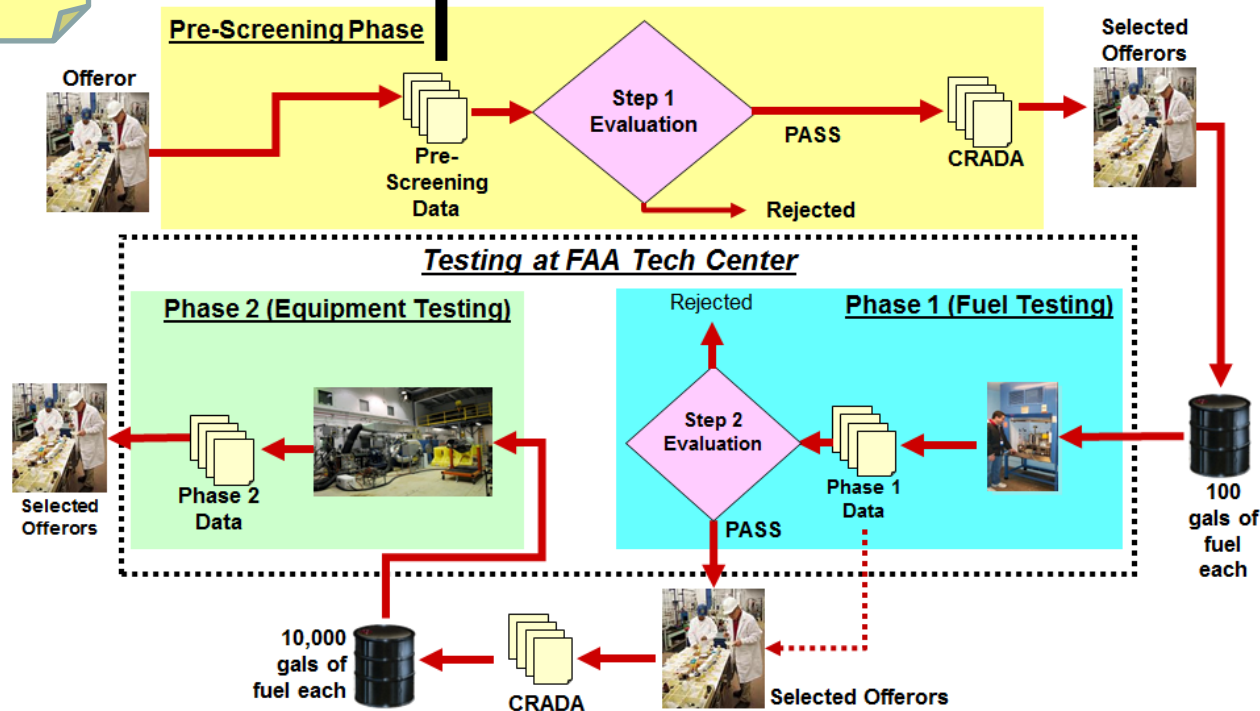
SIR Milestones

June 10,
2013
FAA SIR
Issued

July 1, 2014
Pre-Screening
Data Due

Pg 27, Section L.4.d:

(2) Date and Time: Pre- Screening data submittals shall be submitted not later than 4 pm, local time on 7/1/2014. All Pre-screening data must be included in one report, using the template provided in the template attached as Attachment II. Pre-screening data packages shall be submitted as described in Section L. 5.



Instructions (Section L)

- **Pre-Screening Data Requirements for Admission into Phase 1**
 - Contact Info
 - MSDS
 - ASTM Test Spec
 - Appendix 1 Provides Requirements for Alternative Spec
 - Preliminary Feasibility Assessment
 - Production & Distribution
 - Environmental & Toxicology
 - Business Plan
 - Data Requirements
 - Factor 1: Fuel Properties and Performance
 - Factor 2: Fuel Deployment Feasibility
 - Appendix 2 Provides Pre-Screening Data Submission Template

Step 1 Evaluation (Section M)

- **Pre-Screening Data Evaluation for Admission into Phase 1**
 - Fuel Properties and Performance
 - Fuel Deployment Feasibility
- **Conducted by FAA Technical Evaluation Committee (TEC)**

Step 1 Evaluation (Section M)

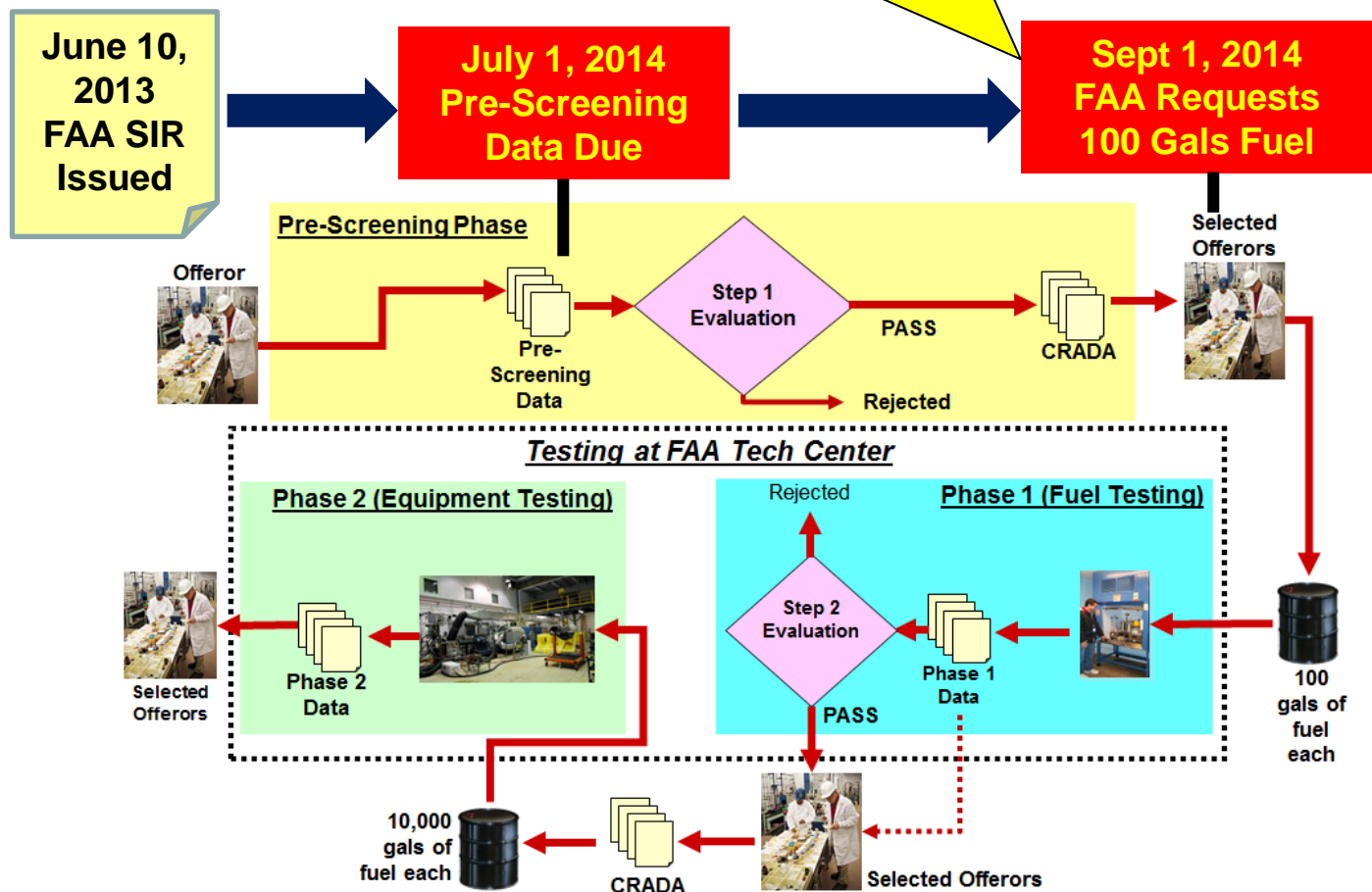
- **FAA Response (Pg 34, Section M.3)**

- After review of the pre-screening fuel data in accordance with Step 1 above, the FAA will respond to offerors in one of three ways:
 - 1) Requesting that the offeror provide 100 gallons of unleaded avgas fuel in specified batches formulated to span the compositional range of the fuel specification in the offeror's pre-screening fuel data for Phase I testing and request that the offeror enter into an OTA that defines the Phase I test program and the composition and volumes of the batches that comprise the 100 gallon requirement.
 - 2) Recommending that the offeror submit a revised pre-screening fuel data package with certain changes made or conditions met.
 - 3) Notifying the offeror that the pre-screening fuel data does not support admittance into the Phase 1 testing program.

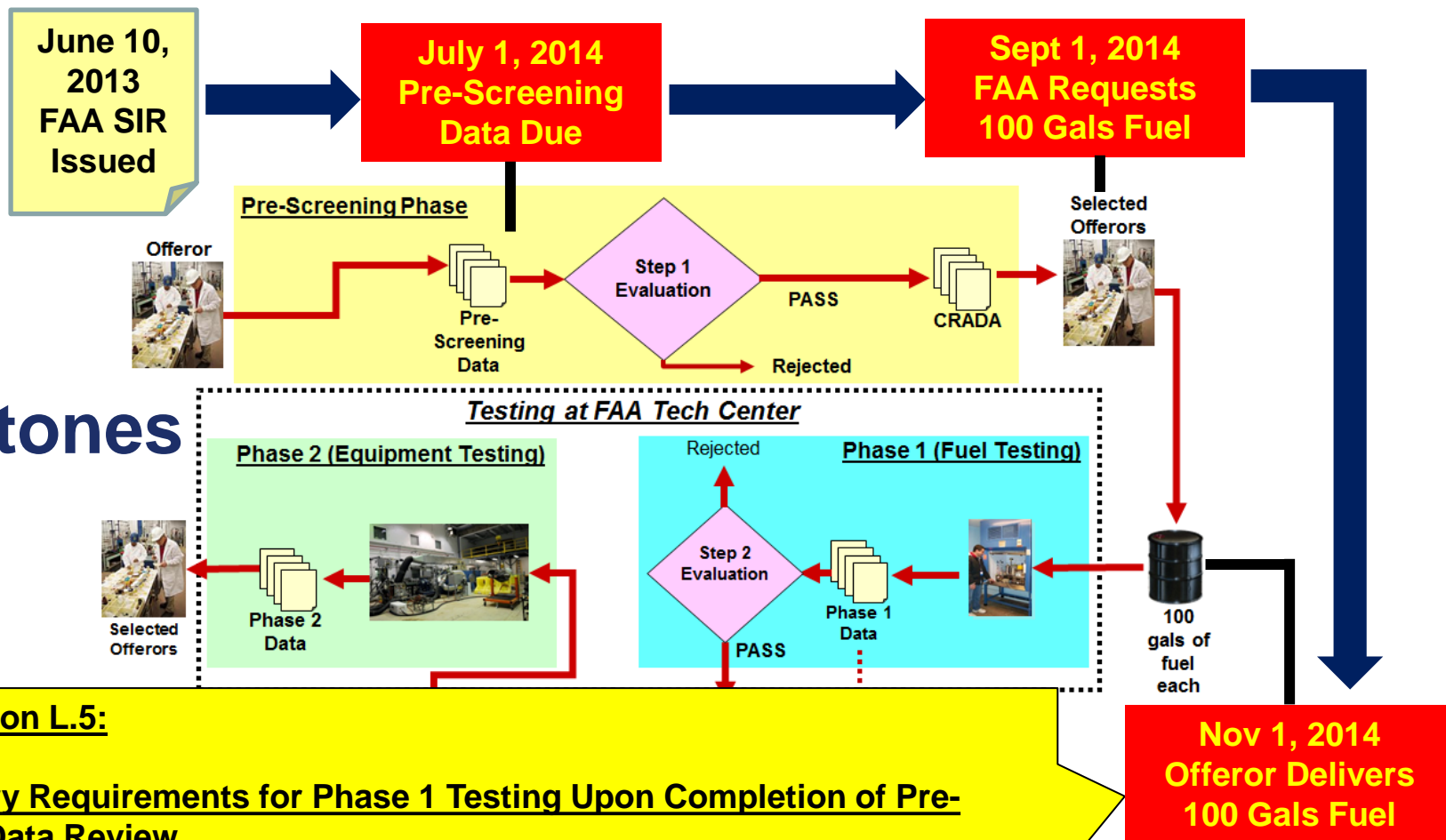
SIR Milestones

Pg 27, Section L.4.d (2):

The FAA may select some of the fuels associated with the pre-screening data for Phase 1 fuel testing in accordance with section M no later than September 1, 2014.



SIR Milestones



Pg 30, Section L.5:

Fuel Delivery Requirements for Phase 1 Testing Upon Completion of Pre-Screening Data Review

If requested by the FAA, offerors shall deliver 100 gallons of unleaded avgas fuel for Phase 1 testing in specified batches formulated to span the compositional range of the fuel specification and meeting the fuel property and performance requirements specified in the offeror's pre-screening fuel data. This fuel shall be delivered in accordance with arrangements made with the FAA William J. Hughes Technical Center. Fuel submissions for Phase 1 testing must be made not more than sixty (60) working days after the date of the request.

Instructions (Section L)

- **Phase 1 Test Data Requirements for Admittance into Phase 2 Testing**
 - The offeror must provide an ASTM International avgas test specification and the associated research report (not later than 6 months after Phase 2 selection)
 - The offer may provide an update to the preliminary feasibility assessment (not later than Dec 31, 2015)
 - The FAA will provide the data produced from the Phase 1 testing.
 - Data Must Address Following:
 - Factor 1: Fuel Properties and Performance
 - Factor 2: Fuel Deployment Feasibility

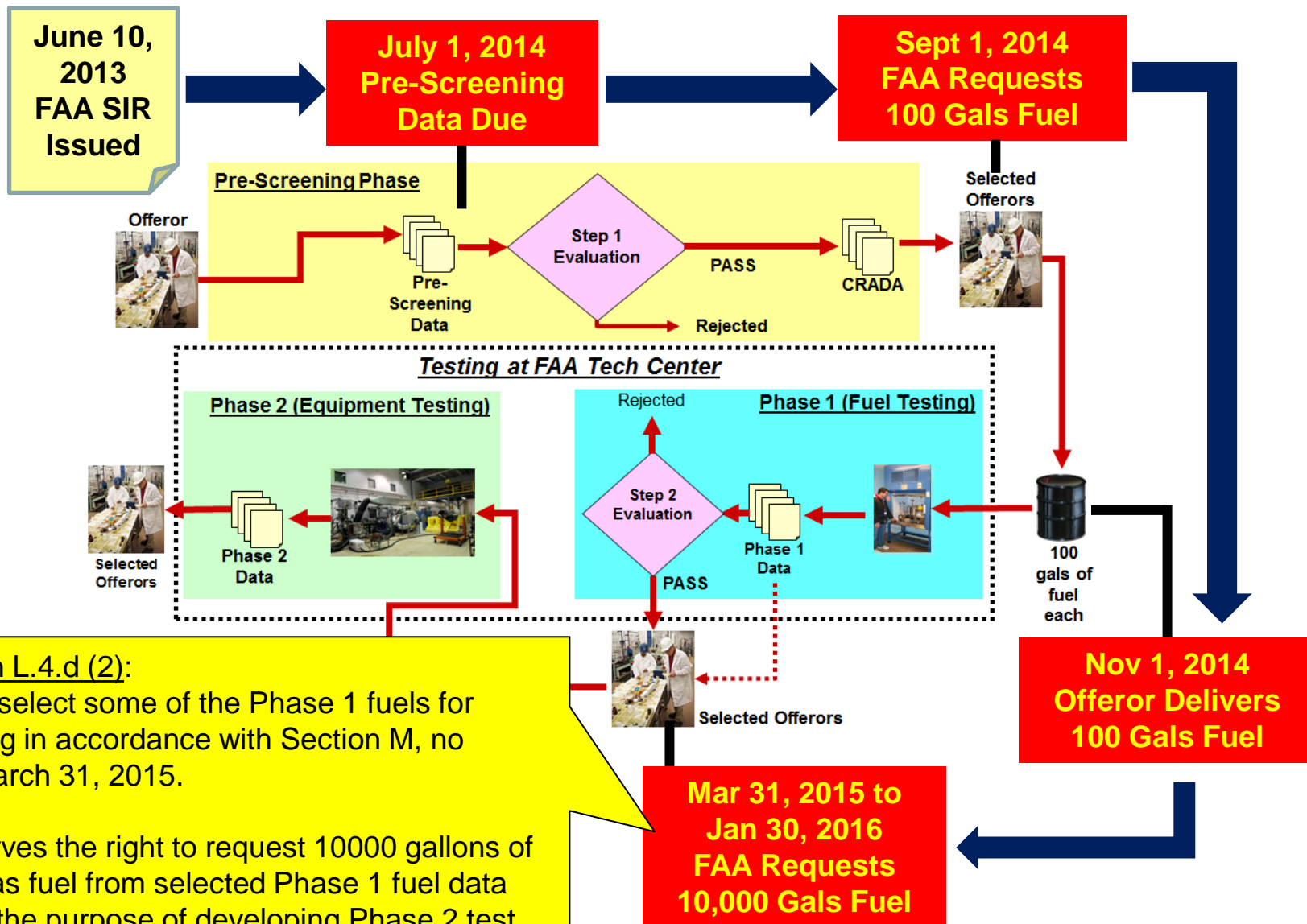
Step 2 Evaluation (Section M)

- **Step 2: Phase 1 Data Evaluation for Admission into Phase 2**
 - Fuel Properties and Performance
 - Fuel Deployment Feasibility
- **Conducted by FAA Technical Evaluation Committee (TEC)**

Step 2 Evaluation (Section M)

- **FAA Response (Pg 35, Section M.3)**

- After review of the Phase 1 test data, the ASTM avgas test specification and associated research report, and the updated preliminary feasibility assessment (if provided), in accordance with Step 2 above, the FAA will provide the Phase 1 test data and respond to offerors in one of two ways:
 - Requesting (1) that the offeror provide 10,000 gallons of unleaded avgas fuel in specified batches formulated to span the compositional range of the fuel specification in the offeror's pre-screening fuel data for Phase 2 testing and (2) that the offeror enter into an OTA that defines the Phase 2 test program and the composition and volumes of the batches that comprise the 10,000 gallon requirement. Additional fuel may be required depending on the extent of Phase 2 testing required.
 - Notifying the offeror that the Phase 1 fuel data does not support admittance into the Phase 2 testing program.



Pg 27, Section L.4.d (2):
The FAA may select some of the Phase 1 fuels for Phase 2 testing in accordance with Section M, no earlier than March 31, 2015.

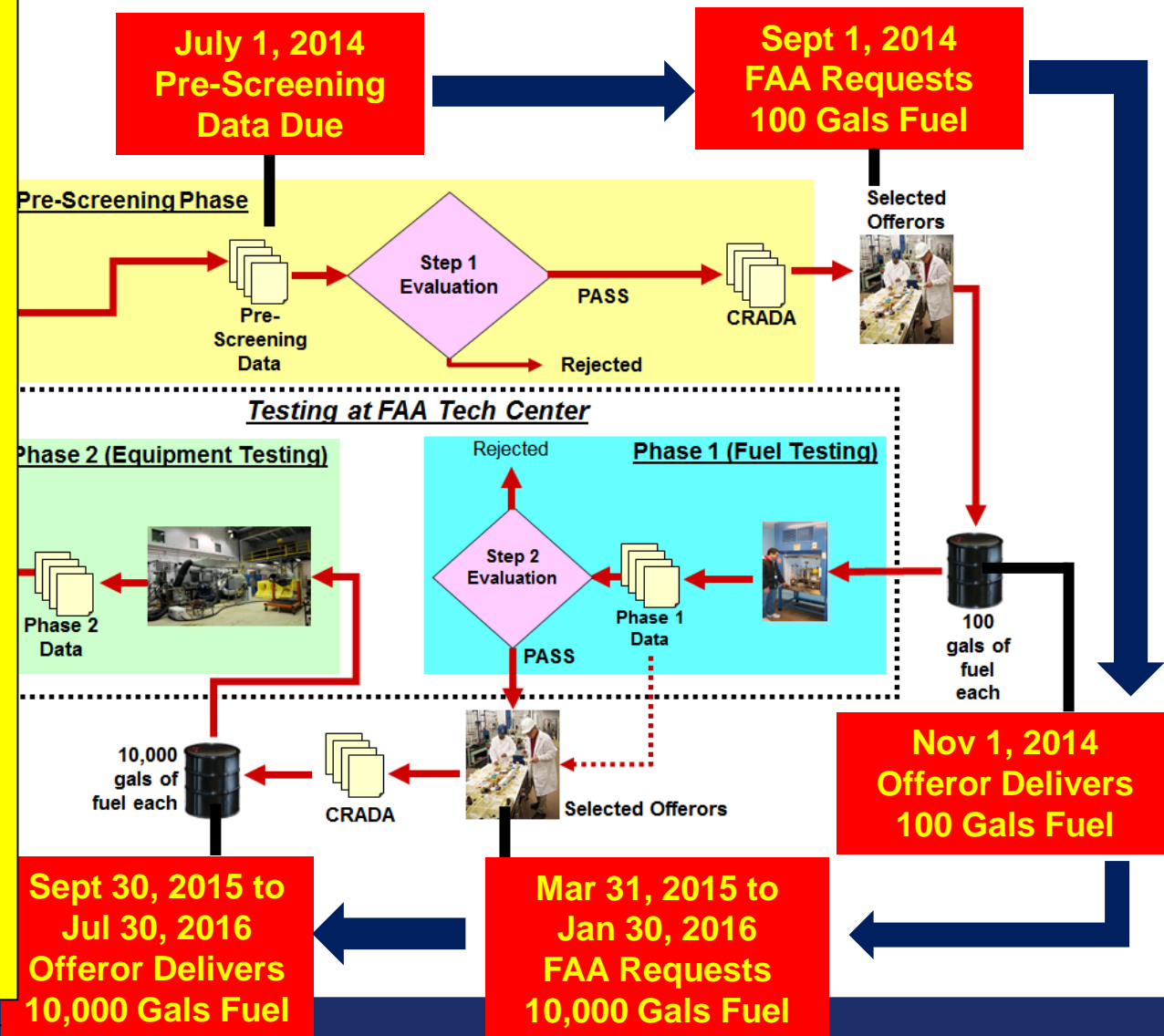
The FAA reserves the right to request 10000 gallons of unleaded avgas fuel from selected Phase 1 fuel data submittals for the purpose of developing Phase 2 test data for that fuel until January 30, 2016. Additional quantities may be required depending on required extent of Phase 2 testing.

Pg 34, Section L.5:

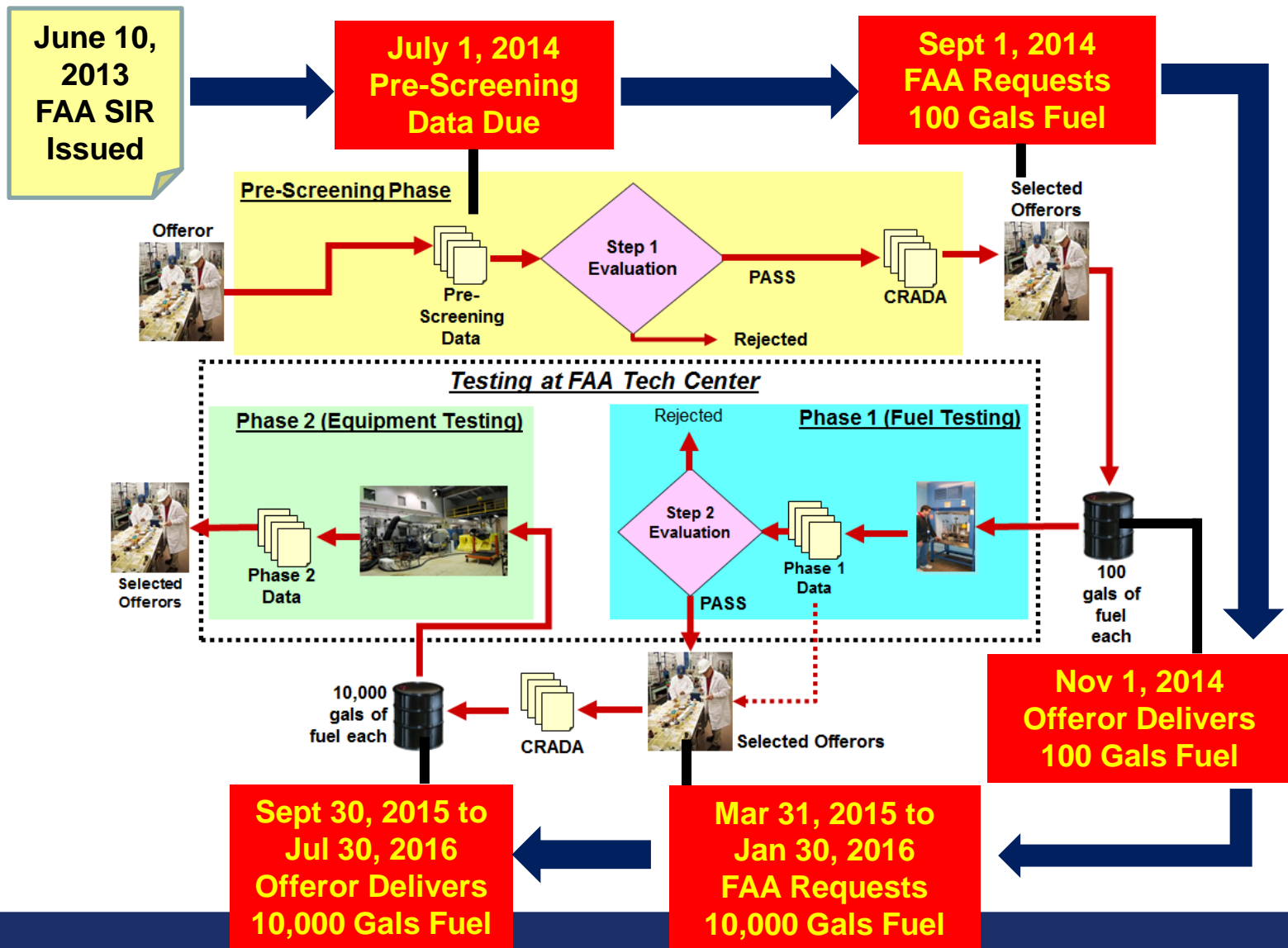
**Fuel Delivery Requirements
for Phase 2 Testing Upon
Completion of Phase I Testing**

If requested by the FAA, offerors shall deliver 10,000 gallons of unleaded avgas fuel for Phase 2 testing in specified batches formulated to span the compositional range of the fuel specification and meeting the fuel property and performance requirements specified in the offeror's pre-screening fuel data. The fuel shall be delivered in accordance with arrangements made with the FAA William J. Hughes Technical Center. Fuel submissions for Phase 2 testing must be made not more than six months after the date of the request. The FAA reserves the right to request additional fuel if required, depending upon the extent of the Phase 2 testing required.

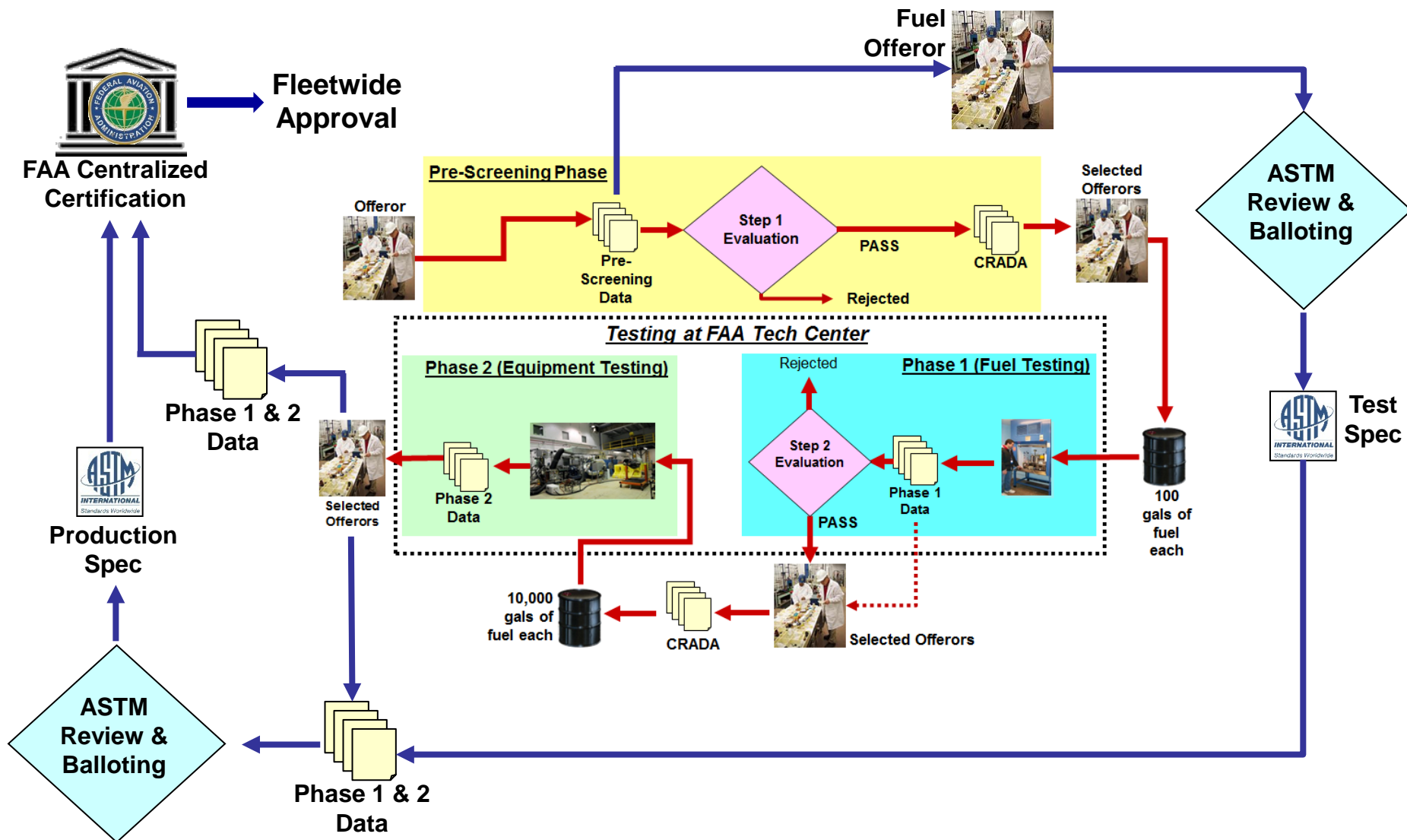
SIR Milestones



SIR Milestones



FAA SIR Feeds Data to ASTM/FAA Processes



SIR Schedule

