VIRGINIA RAILWAY EXPRESS

AMENDMENT OF SOLICITATION

INVITATION FOR BIDS (IFB)

ADDENDUM No. 1

Issued: May 20, 2021

IFB No. 021-014  Title: Rehabilitation of Wheelsets and Traction Motor Assemblies

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DESCRIPTION OF AMENDMENT

The above numbered solicitation is amended as follows:

1. ATTACHMENT C – TECHNICAL SPECIFICATIONS

   DELETE:  Pages 5, 6, 12 and 13

   REPLACE WITH:  Pages 5R, 6R, 12R and 13R attached herewith

Except as specifically amended herein, all other terms and conditions of this solicitation remain unchanged and in full force and effect.

Bidders must acknowledge receipt of this amendment by returning a signed original with the Bid package prior to the hour and date specified in the solicitation.

Company________________________________________

Address ___________________________________________

City ____________________________ State ____________ Zip Code ____________

Name of Person Authorized to Sign ______________________________

Print

Signature_________________________________________ Date _____________________

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4. **TRACTION MOTOR COMBO SERVICES**

The Contractor shall receive traction motor/wheel/axle assemblies from VRE and perform repairs to return the assemblies to useful service. The assemblies may need new wheels, wheel profiling, traction motor repair or a combination of these services. Following receipt and inspection of each traction motor/wheel/axle assembly, the Contractor shall recommend a course of action in writing to VRE for approval.

4.1 **Wheel Renewal**

A. The Contractor shall perform the following work to renew locomotive wheels:

1. Disassemble the traction motor/wheel/axle combination;
2. Qualify the axle; ensure that both ends of the axle are splined, splines shall be added if they are not present; replace the axle if it does not qualify;
3. Qualify the traction motor’s seventeen (17) tooth pinion and the axle’s sixty (60) tooth bull gear;
4. Replace the “GG” roller bearings with new or rebuilt bearings;
5. Reassemble the traction motor/wheel/axle combination;
6. Include new support bearings, oil seals and gear case seals; and
7. *Test for performance, noise, vibration, and excessive heat from the support bearing.*

B. VRE will provide new locomotive wheels (wide flange E40” class B with a 1:20 taper).

4.2 **Wheel Profile**

A. The Contractor shall disassemble the traction motor/wheel/axle combination to facilitate profiling the wheels and perform the following services:

1. Qualify the seventeen (17) tooth traction motor pinion;
2. Qualify the sixty (60) tooth axle bull gear;
3. Replace the support bearings, oil seals and gear case seals with new; and

4. Apply new or reconditioned “GG” bearings.

B. The Contractor shall perform the following work to profile locomotive wheels:

1. Profile wheels with a wide flange and 1:20 taper tread; and

2. Qualify the axle; ensure that both ends of the axle are splined, splines shall be added if they are not present; replace the axle if it does not qualify.

C. The Contractor shall test for performance, noise, vibration, and excessive heat from the support bearing.

4.3 Disassembly and Reassembly of the Motor from the Wheel/Axle Combination

A. The Contractor shall perform the following work to disassemble and reassemble the traction motor/wheel/axle combination:

1. Qualify the axle; ensure that both ends of the axle are splined, splines shall be added if they are not present; replace the axle if it does not qualify;

2. Qualify the sixty (60) tooth bull gear on the axle and replace if needed; and

3. Replace the support bearings, oil seals and gear case seals with new.

B. The Contractor shall test for performance, noise, vibration, and excessive heat from the support bearing.

4.4 Motor Services (Basic Overhaul)

A. The Contractor shall perform the following motor services:

1. The traction motors covered by this specification shall be overhauled following the latest revision of the Electro-Motive Diesel (EMD) Maintenance Instruction (M.I.) 3950 Traction Motor Overhaul Sections 1 - 7, and to at least the minimum requirements listed within.
9. Bore the wheels so that the wheels and axle have the proper press fit.

10. Mount the wheels to the axle with proper back-to-back spacing for wide flange wheels following all AAR and applicable OEM requirements.

11. Apply the rebuilt journal bearings to the axle.

12. Provide new support bearings.

13. Reassemble the WACT and add proper fluids.

14. **Test for performance, noise, vibration, and excessive heat from the support bearing.**

G. **Replace Locomotive Axle**

1. Inspect the WACT.

2. During the inspection, it is determined that the axle of the WACT needs to be replaced and no other defects noted.

3. Separate the wheelset from the traction motor.

4. Remove the journal bearings from the axle and rebuild as defined in Section 3.4.

5. Dismount, qualify and reuse the wheels.

6. Dismount, qualify and reuse the bull gear.

7. Supply a replacement axle as defined in Sections 3.1 and 3.3.

8. Mount the bull gear to the new axle.

9. Bore the wheels so that the wheels and axle have the proper press fit.

10. Mount the new axle with proper back-to-back spacing for wide flange wheels following all AAR and applicable OEM requirements.

11. Apply the rebuilt journal bearings to the axle.

12. Provide new support bearings.
13. Reassemble the WACT and add proper fluids.

14. **Test for performance, noise, vibration, and excessive heat from the support and motor bearings.**

H. **Basic Overhaul of D78 Traction Motor**

1. Inspect the WACT.

2. During the inspection, it is determined that the traction motor of the WACT needs a basic overhaul and no other defects noted.

3. Separate the wheelset from the traction motor.

4. Remove the journal bearings from the axle and rebuild as defined in Section 3.4.

5. Rebuild the traction motor as defined in Section 4.4.

6. Apply the rebuilt journal bearings to the axle.

7. Provide new support bearings.

8. Reassemble the WACT and add proper fluids.

9. **Test for performance, noise, vibration, and excessive heat from the support and motor bearings.**