

Provide transport and rebuild the following equipment:

One (1) each FMC Thru-flow Traveling Water Screen having 10'-0" basket width x 34'-0" sprocket centers, two-post design.

This rebuild to be backed by an eighteen (18) month warranty.

SPECIFICATION

1. One (1) Link-Belt model #45A traveling screen will be loaded on a vendor supplied truck at a mutually agreed upon time. Vendor shall be responsible for shipping the screen to and from repair facility. JEA will be responsible for loading and unloading the screen at JEA's Northside Generating Station.
2. Once the screen is in the vendor's facility, it shall be completely disassembled, abrasive blasted to bare metal, and inspected. If prior to blasting, vendor determines a large portion of the coating is in good condition, then the vendor shall give JEA the option of a reduced work scope (less blasting and coating) along with reduced pricing. Vendor shall advise JEA of any additional work, if any is required. Vendor shall provide an inspection report with a written description of work, photographs, and prices via email for the additional work. No additional work shall be started without JEA's prior approval.
3. Surface Preparation: CHLOR*RID as manufactured by CHLOR*RID International shall be applied to all surfaces to be painted for the removal of soluble salts. CHLOR*RID shall be applied by pressure washing at a minimum of 3,000 psi using one gallon of CHLOR*RID for each 100 gallons of potable water. The pressure washer shall be equipped with a zero-degree rotating tip nozzle, which shall be held perpendicular to and no more than 6" from the surface. This process shall be repeated as necessary to ensure all surfaces are free of grease, dirt, oils, chlorides, and nitrates. Vendor will inspect and insure the chloride levels are below 7 micrograms per square centimeter with the proper test equipment before any further surface preparation is performed. All surfaces to be painted shall then be abrasive blast cleaned to conform to Steel Structures Painting Council Standard SSPC-SP10 "Near-White Blast Cleaning," to yield a profile of 1.5-3 mils. All sharp edges of the metal to be painted shall be ground smooth to allow better adhesion of coatings.
4. Coating System: All carbon steel metal shall be coated with the following Immersion service rated epoxy coating systems: A coating representative is required to observe a portion of the coating process to ensure proper coating methods are in place.
 - Prime Coat: PPG Amercoat 240
 - Stripe Coat: PPG Amercoat 240
 - First Intermediate Coat: PPG Amercoat 240
 - Second Intermediate Coat: PPG Amercoat 240Coatings shall be a minimum of 6 mils D.F.T. per coat. The total dry film thickness shall not be less than 18 mils. Paint colors shall be alternated between coats for better coverage. In addition, all coated surfaces shall be coated with one of the following blue Federal Standard Color #15450, aliphatic acrylic polyurethane gloss enamels:
 - Finish Coat: Ameron Amercoat 450HS

5. All frame assembly bolted joints shall be sealed with 3M marine adhesive sealant. The entire frame assembly shall be reassembled with new 316 stainless steel hardware.
6. All countersunk screws shall be properly sized, so the head is flush or slightly recessed into the part being fastened. Vendor will pay special attention to chain guides and tooth inserts to make sure the countersunk screws make no noticeable protrusion above surface of the part.
7. The head section assembly shall be disassembled, cleaned, and rebuilt. Vendor will furnish and install a new 3-15/16" Duplex 2205 stainless steel head shaft. This head shaft is not OEM material. Two (2) new 48" p.d. welded carbon steel head sprockets will be installed. Vendor will install new 400 series stainless steel sprocket tooth inserts using stainless steel fasteners and locknuts. The inserts will then be welded to the tooth pockets. Install new head shaft key. Disassemble, clean, and inspect anti-friction bearings. Install two (2) new OEM roller bearings and bearing housings and fill bearing cavities with Conoco Philips Multiplex Red #2 lithium complex grease. After the bearings have been properly installed, bearing clearances will be measured and provided to JEA. Verify the head shaft take up bearing housings have full vertical range of movement without any binding whatsoever.
8. Disassemble and inspect both spring take-up assemblies including the springs, thrust bearings and capstan nuts. No paint/coatings shall be applied to the take-up screw threads.
9. Vendor will disassemble and inspect the boot section including structural side panels, boot castings, foot shaft sprockets, and foot shaft assembly including Stody bearings (note: The Stody sleeve is not standard length on the non-keyed side, it extends to the set collar, approximately 14" long). Install one (1) new 2-15/16" stainless steel foot shaft with correct Stody sleeves, set collar, Stody bearings, and shaft key furnished by vendor.
10. New foot shaft bearing housings will be installed. Foot shaft bearing housing bolts shall have the bolt heads installed on the outside of the frame to allow proper clearance for installation. If vendor finds it necessary to install nuts on the outside of the frame, then bolt length must be trimmed so that bolt and nut do not extend more than 1-1/8" beyond the face of the frame.
11. Vendor will install two new cast dished foot sprockets onto the foot shaft. Twelve (12) all new 400 series tooth inserts using stainless steel fasteners and locknuts. The twelve (12) tooth inserts will be welded to the foot sprocket teeth after being fastened.
- 12. Chain guide to be cut back by vendor 1" from lower sprocket.**
13. Carrier chain will be removed and replaced with all new 3/8" thick 316 stainless steel sidebar carrier chain having 17-4 pins and rollers and Nitronic 60 bushings furnished by vendor.
14. The splash housings, fish and debris troughs, screen baskets, seal plates, spray wash system and drive assembly will be removed by JEA prior to shipping to vendor. These items will be reinstalled by JEA when the screens are returned from vendor's repair facility. These items will remain at the Northside Generating Station during the rebuild.

JEA is reserves the right to have a representative visit vendor's repair facility at any time during the rebuild process.