

**Contract  
MA-280-19010940**

**for**

**Passenger Loading Bridge and Baggage Handling System  
Maintenance**

**Between**

**County of Orange, John Wayne Airport**

**and**

**~~John Bean Technologies Corporation~~  
~~DBA JBT AeroTech Services Corporation~~**



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**Between**  
**County of Orange, John Wayne Airport**  
**And**  
~~**John Bean Technologies Corporation**~~  
**DBA-JBT AeroTech Services Corporation**

This Agreement ("Contract") is made between the County of Orange, a political subdivision of the State of California, through its department John Wayne Airport ("County" or "JWA"), and ~~**John Bean Technologies Corporation**~~ **DBA-JBT AeroTech Services Corporation** ("Contractor"), which are sometimes individually referred to as a "Party" or collectively referred to as the "Parties."

**Recitals**

*Whereas*, County desires to enter into a Contract for a Passenger Loading Bridge and Baggage Handling System Maintenance; and

*Whereas*, Contractor agrees to provide goods and services, as further set forth in the Scope of Work, attached hereto as Attachment A and incorporated herein; and

*Whereas*, County agrees to pay Contractor the fees as more specifically described in Contractor's Pricing, attached hereto as Attachment B and incorporated herein;

*WHEREAS, the Board of Supervisors approved the Assignment, Novation and Consent Agreement to transfer and assign the Contract with John Bean Technologies Corporation dba JBT AeroTech Services to Contractor, effective August 1, 2019; and,*

*WHEREAS, the Parties now desire to renew the Contract for one year, effective January 14, 2022 through January 13, 2023, with a new Total Contract Amount not to exceed \$4,273,116.00, on the terms set forth below; and,*

*Now Therefore*, Parties mutually agree as follows:

**Articles**

**General Terms and Conditions**

**A. Governing Law and Venue**

This Contract has been negotiated and executed in the state of California and shall be governed by and construed under the laws of the state of California. In the event of any legal action to enforce or interpret this Contract, the sole and exclusive venue shall be a court of competent jurisdiction located in Orange County, California, and the parties hereto agree to and do hereby submit to the jurisdiction of such court, notwithstanding Code of Civil Procedure Section 394. Furthermore, the parties specifically agree to waive any and all rights to request that an action be transferred for adjudication to another county.

**B. Entire Contract**

This Contract contains the entire Contract between the parties with respect to the matters herein, and there are no restrictions, promises, warranties or undertakings other than those set forth herein or referred to herein. No exceptions, alternatives, substitutes or revisions are valid or binding on County unless authorized by County in writing. Electronic acceptance of any additional terms, conditions or supplemental Contracts by any County employee or agent, including but not limited to installers of software, shall not be valid or binding on County unless accepted in writing by County's Purchasing Agent or designee.

**C. Amendments**

No alteration or variation of the terms of this Contract shall be valid unless made in writing and signed by the parties; no oral understanding or agreement not incorporated herein shall be binding on either of the parties; and no exceptions, alternatives, substitutes or revisions are valid or binding on County unless authorized by County in writing.

**D. Taxes**

Unless otherwise provided herein or by law, price quoted does not include California state sales or use tax. Out-of-state Contractors shall indicate California Board of Equalization permit number and sales permit number on invoices, if California sales tax is added and collectable. If no permit numbers are shown, sales tax will be deducted from payment. The Auditor-Controller will then pay use tax directly to the State of California in lieu of payment of sales tax to the Contractor.

**E. Delivery**

Time of delivery of goods or services is of the essence in this Contract. County reserves the right to refuse any goods or services and to cancel all or any part of the goods not conforming to applicable specifications, drawings, samples or descriptions or services that do not conform to the prescribed statement of work. Acceptance of any part of the order for goods shall not bind County to accept future shipments nor deprive it of the right to return goods already accepted at Contractor's expense. Over shipments and under shipments of goods shall be only as agreed to in writing by County. Delivery shall not be deemed to be complete until all goods or services have actually been received and accepted in writing by County.

**F. Acceptance/Payment**

Unless otherwise agreed to in writing by County, 1) acceptance shall not be deemed complete unless in writing and until all the goods/services have actually been received, inspected, and tested to the satisfaction of County, and 2) payment shall be made in arrears after satisfactory acceptance.

**G. Warranty**

Contractor expressly warrants that the goods covered by this Contract are 1) free of liens or encumbrances, 2) merchantable and good for the ordinary purposes for which they are used, and 3) fit for the particular purpose for which they are intended. Acceptance of this order shall constitute an agreement upon Contractor's part to indemnify, defend and hold County and its indemnitees as identified in paragraph "Z" below, and as more fully described in paragraph "Z," harmless from liability, loss, damage and expense, including reasonable counsel fees, incurred or sustained by County by reason of the failure of the goods/services to conform to such warranties, faulty work performance, negligent or unlawful acts, and non-compliance with any applicable state or federal codes, ordinances, orders, or statutes, including the Occupational Safety and Health Act (OSHA) and the California Industrial Safety Act. Such remedies shall be in addition to any other remedies provided by law.

**H. Patent/Copyright Materials/Proprietary Infringement**

Unless otherwise expressly provided in this Contract, Contractor shall be solely responsible for clearing the right to use any patented or copyrighted materials in the performance of this Contract. Contractor warrants that any software as modified through services provided hereunder will not infringe upon or violate any patent, proprietary right, or trade secret right of any third party. Contractor agrees that, in accordance with the more specific requirement contained in paragraph "Z" below, it shall indemnify, defend and hold County and County Indemnitees harmless from any and all such claims and be responsible for payment of all costs, damages, penalties and expenses related to or arising from such claim(s), including, costs and expenses but not including attorney's fees.

**I. Assignment**

The terms, covenants, and conditions contained herein shall apply to and bind the heirs, successors, executors, administrators and assigns of the parties. Furthermore, neither the performance of this Contract nor any portion thereof may be assigned by Contractor without the express written consent of County. Any attempt by Contractor to assign the performance or any portion thereof of this Contract without the express written consent of County shall be invalid and shall constitute a breach of this Contract.

**J. Non-Discrimination**

In the performance of this Contract, Contractor agrees that it will comply with the requirements of Section 1735 of the California Labor Code and not engage nor permit any subcontractors to engage in discrimination in employment of persons because of the race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, or sex of such persons. Contractor acknowledges that a violation of this provision shall subject Contractor to penalties pursuant to Section 1741 of the California Labor Code.

**K. Termination**

In addition to any other remedies or rights it may have by law, County has the right to immediately terminate this Contract without penalty for cause or after 30 days' written notice without cause, unless otherwise specified. Cause shall be defined as any material breach of contract, any misrepresentation or fraud on the part of the Contractor. Exercise by County of its right to terminate the Contract shall relieve County of all further obligation.

**L. Consent to Breach Not Waiver**

No term or provision of this Contract shall be deemed waived and no breach excused, unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether express or implied, shall not constitute consent to, waiver of, or excuse for any other different or subsequent breach.

**M. Independent Contractor**

Contractor shall be considered an independent contractor and neither Contractor, its employees, nor anyone working under Contractor shall be considered an agent or an employee of County. Neither Contractor, its employees nor anyone working under Contractor shall qualify for workers' compensation or other fringe benefits of any kind through County.

**N. Performance Warranty**

Contractor shall warrant all work under this Contract, taking necessary steps and precautions to perform the work to County's satisfaction. Contractor shall be responsible for the professional quality, technical assurance, timely completion and coordination of all documentation and other goods/services furnished by the Contractor under this Contract. Contractor shall perform all work diligently, carefully, and in a good and workmanlike manner; shall furnish all necessary labor, supervision, machinery, equipment, materials, and supplies, shall at its sole expense obtain and maintain all permits and licenses required by public authorities, including those of County required in its governmental capacity, in connection with performance of the work. If permitted to subcontract, Contractor shall be fully responsible for all work performed by subcontractors.

**O. Insurance Requirements**

Prior to the provision of services under this contract, the Contractor agrees to purchase all required insurance at Contractor's expense, including all endorsements required herein, necessary to satisfy the County that the insurance provisions of this contract have been complied with. Contractor agrees to keep such insurance coverage, Certificates of Insurance, and endorsements on deposit with the County during the entire term of this contract. In addition, all subcontractors performing work on behalf of Contractor pursuant to this contract shall obtain insurance subject to the same terms and conditions as set forth herein for Contractor.

Contractor shall ensure that all subcontractors performing work on behalf of Contractor pursuant to this contract shall be covered under Contractor's insurance as an Additional Insured or maintain insurance subject to the same terms and conditions as set forth herein for Contractor. Contractor shall not allow subcontractors to work if subcontractors have less than the level of coverage required by County from Contractor under this contract. It is the obligation of Contractor to provide notice of the insurance requirements to every subcontractor, and to receive proof of insurance prior to allowing any subcontractor to begin work. Such proof of insurance must be maintained by Contractor through the entirety of this contract for inspection by County representative(s) at any reasonable time.

All self-insured retentions (SIRs) shall be clearly stated on the Certificate of Insurance. Any self-insured retention (SIR) in an amount in excess of Fifty Thousand Dollars (\$50,000) shall specifically be approved by the County's Risk Manager, or designee, upon review of Contractor's current audited financial report. If Contractor's SIR is approved, Contractor, in addition to, and without limitation of, any other indemnity provision(s) in this Contract, agrees to all of the following:

1. In addition to the duty to indemnify and hold the County harmless against any and all liability, claim, demand or suit resulting from Contractor's, its agents, employee's or subcontractor's performance of this Contract, Contractor shall defend the County at its sole cost and expense with counsel approved by Board of Supervisors against same; and
2. Contractor's duty to defend, as stated above, shall be absolute and irrespective of any duty to indemnify or hold harmless; and
3. The provisions of California Civil Code Section 2860 shall apply to any and all actions to which the duty to defend stated above applies, and the Contractor's SIR provision shall be interpreted as though the Contractor was an insurer and the County was the insured.

If the Contractor fails to maintain insurance acceptable to the County for the full term of this contract, the County may terminate this contract.

### **Qualified Insurer**

The policy or policies of insurance must be issued by an insurer with a minimum rating of A- (Secure A.M. Best's Rating) and VIII (Financial Size Category as determined by the most current edition of the **Best's Key Rating Guide/Property-Casualty/United States or ambest.com**). It is preferred, but not mandatory, that the insurer be licensed to do business in the State of California (California Admitted Carrier).

If the insurance carrier does not have an A.M. Best Rating of A-/VIII, the CEO/Office of Risk Management retains the right to approve or reject a carrier after a review of the company's performance and financial ratings.

The policy or policies of insurance maintained by the Contractor shall provide the minimum limits and coverage as set forth below:

### **Coverage**

### **Minimum Limits**

Commercial General Liability	\$1M occurrence/\$2M aggregate
Automobile Liability including coverage (owned, hired, non-owned)	\$10M for Commercial Ramp access
Workers' Comp/Employer's Liability	Statutory/\$1M occurrence

### **Required Coverage Forms**

The Commercial General Liability coverage shall be written on Insurance Services Office (ISO) form CG 00 01, or a substitute form providing liability coverage at least as broad.

The Business Auto Liability coverage shall be written on ISO form CA 00 01, CA 00 05, CA 00 12, CA 00 20, or a substitute form providing liability coverage as broad.

### **Required Endorsements**

The Commercial General Liability policy shall contain the following endorsements, which shall accompany the Certificate of Insurance:

1. An Additional Insured endorsement using ISO form CG 20 26 04 13 or a form at least as broad naming the ***County of Orange, its elected and appointed officials, officers, employees and agents***

as Additional Insureds, or provide blanket coverage, which will state *As Required by Written Contract*.

2. A primary non-contributing endorsement using ISO Form CG 20 01 04 13, or a form at least as broad evidencing that the Contractor's insurance is primary and any insurance or self-insurance maintained by the County of Orange shall be excess and non-contributing.

The Workers' Compensation policy shall contain a waiver of subrogation endorsement waiving all rights of subrogation against the *County of Orange, its elected and appointed officials, officers, employees and agents*, or provide blanket coverage, which will state *As Required by Written Contract*.

All insurance policies required by this contract shall waive all rights of subrogation against the County of Orange, its elected and appointed officials, officers, employees and agents when acting within the scope of their appointment or employment.

Contractor shall notify County in writing within thirty (30) days of any policy cancellation and ten (10) days for non-payment of premium and provide a copy of the cancellation notice to County. Failure to provide written notice of cancellation may constitute a material breach of the contract, upon which the County may suspend or terminate this contract.

The Commercial General Liability policy shall contain a severability of interests clause, also known as a "separation of insureds" clause (standard in the ISO CG 001 policy).

Insurance certificates should be forwarded to the agency/department address listed on the solicitation. If the Contractor fails to provide the insurance certificates and endorsements within seven (7) days of notification by CEO/Purchasing or the agency/department purchasing division, award may be made to the next qualified vendor.

County expressly retains the right to require Contractor to increase or decrease insurance of any of the above insurance types throughout the term of this contract. Any increase or decrease in insurance will be as deemed by County of Orange Risk Manager as appropriate to adequately protect County.

County shall notify Contractor in writing of changes in the insurance requirements. If Contractor does not deposit copies of acceptable Certificates of Insurance and endorsements with County incorporating such changes within thirty (30) days of receipt of such notice, this contract may be in breach without further notice to Contractor, and County shall be entitled to all legal remedies.

The procuring of such required policy or policies of insurance shall not be construed to limit Contractor's liability hereunder nor to fulfill the indemnification provisions and requirements of this contract, nor act in any way to reduce the policy coverage and limits available from the insurer.

#### **P. Changes**

Contractor shall make no changes in the work or perform any additional work without the County's specific written approval.

#### **Q. Change of Ownership/Name, Litigation Status, Conflicts with County Interests**

Contractor agrees that if there is a change or transfer in ownership of Contractor's business prior to completion of this Contract, and the County agrees to an assignment of the Contract, the new owners shall be required under the terms of sale or other instruments of transfer to assume Contractor's duties and obligations contained in this Contract and complete them to the satisfaction of the County.

County reserves the right to immediately terminate the Contract in the event the County determines that the assignee is not qualified or is otherwise unacceptable to the County for the provision of services under the Contract.

In addition, Contractor has the duty to notify the County in writing of any change in the Contractor's status with respect to name changes that do not require an assignment of the Contract. The Contractor is also obligated to notify the County in writing if the Contractor becomes a party to any litigation against the County, or a party to litigation that may reasonably affect the Contractor's performance under the

Contract, as well as any potential conflicts of interest between Contractor and County that may arise prior to or during the period of Contract performance. While Contractor will be required to provide this information without prompting from the County any time there is a change in Contractor's name, conflict of interest or litigation status, Contractor must also provide an update to the County of its status in these areas whenever requested by the County.

The Contractor shall exercise reasonable care and diligence to prevent any actions or conditions that could result in a conflict with County interests. In addition to the Contractor, this obligation shall apply to the Contractor's employees, agents, and subcontractors associated with the provision of goods and services provided under this Contract. The Contractor's efforts shall include, but not be limited to establishing rules and procedures preventing its employees, agents, and subcontractors from providing or offering gifts, entertainment, payments, loans or other considerations which could be deemed to influence or appear to influence County staff or elected officers in the performance of their duties.

#### **R. Force Majeure**

Contractor shall not be assessed with liquidated damages or unsatisfactory performance penalties during any delay beyond the time named for the performance of this Contract caused by any act of God, war, civil disorder, employment strike or other cause beyond its reasonable control, provided Contractor gives written notice of the cause of the delay to County within 36 hours of the start of the delay and Contractor avails himself of any available remedies.

#### **S. Confidentiality**

Contractor agrees to maintain the confidentiality of all County and County-related records and information pursuant to all statutory laws relating to privacy and confidentiality that currently exist or exist at any time during the term of this Contract. All such records and information shall be considered confidential and kept confidential by Contractor and Contractor's staff, agents and employees.

#### **T. Compliance with Laws**

Contractor represents and warrants that services to be provided under this Contract shall fully comply, at Contractor's expense, with all standards, laws, statutes, restrictions, ordinances, requirements, and regulations (collectively "laws"), including, but not limited to those issued by County in its governmental capacity and all other laws applicable to the services at the time services are provided to and accepted by County. Contractor acknowledges that County is relying on Contractor to ensure such compliance, and pursuant to the requirements of paragraph "Z" below, Contractor agrees that it shall defend, indemnify and hold County and County INDEMNITEES harmless from all liability, damages, costs and expenses arising from or related to a violation of such laws.

#### **U. Freight**

Prior to the County's express acceptance of delivery of products. Contractor assumes full responsibility for all transportation, transportation scheduling, packing, handling, insurance, and other services associated with delivery of all products deemed necessary under this Contract.

#### **V. Severability**

If any term, covenant, condition or provision of this Contract is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of the provisions hereof shall remain in full force and effect and shall in no way be affected, impaired or invalidated thereby.

#### **W. Attorney Fees**

In any action or proceeding to enforce or interpret any provision of this Contract, each party shall bear their own attorney's fees, costs and expenses.

#### **X. Interpretation**

This Contract has been negotiated at arm's length and between persons sophisticated and knowledgeable in the matters dealt with in this Contract. In addition, each party had been represented by experienced and knowledgeable independent legal counsel of their own choosing or has knowingly declined to seek such counsel despite being encouraged and given the opportunity to do so. Each party further acknowledges that they have not been influenced to any extent whatsoever in executing this Contract by any other party hereto or by any person representing them, or both. Accordingly, any rule or law



(including California Civil Code Section 1654) or legal decision that would require interpretation of any ambiguities in this Contract against the party that has drafted it is not applicable and is waived. The provisions of this Contract shall be interpreted in a reasonable manner to effect the purpose of the parties and this Contract.

#### **Y. Employee Eligibility Verification**

The Contractor warrants that it fully complies with all Federal and State statutes and regulations regarding the employment of aliens and others and that all its employees performing work under this Contract meet the citizenship or alien status requirement set forth in Federal statutes and regulations. The Contractor shall obtain, from all employees performing work hereunder, all verification and other documentation of employment eligibility status required by Federal or State statutes and regulations including, but not limited to, the Immigration Reform and Control Act of 1986, 8 U.S.C. §1324 et seq., as they currently exist and as they may be hereafter amended. The Contractor shall retain all such documentation for all covered employees for the period prescribed by the law. The Contractor shall indemnify, defend with counsel approved in writing by County, and hold harmless, the County, its agents, officers, and employees from employer sanctions and any other liability which may be assessed against the Contractor or the County or both in connection with any alleged violation of any Federal or State statutes or regulations pertaining to the eligibility for employment of any persons performing work under this Contract.

#### **Z. Indemnification**

Contractor agrees to indemnify, defend with counsel approved in writing by County, and hold County, its elected and appointed officials, officers, employees, agents and those special districts and agencies which County's Board of Supervisors acts as the governing Board ("County Indemnitees") harmless from any claims, demands or liability of any kind or nature, including but not limited to personal injury or property damage, arising from or related to the services, products or other performance provided by Contractor pursuant to this Contract. If judgment is entered against Contractor and County by a court of competent jurisdiction because of the concurrent active negligence of County or County Indemnitees, Contractor and County agree that liability will be apportioned as determined by the court. Neither party shall request a jury apportionment.

#### **AA. Audits/Inspections**

Contractor agrees to permit the County's Auditor-Controller or the Auditor-Controller's authorized representative (including auditors from a private auditing firm hired by the County) access during normal working hours to all books, accounts, records, reports, files, financial records, supporting documentation, including payroll and accounts payable/receivable records, and other papers or property of Contractor for the purpose of auditing or inspecting any aspect of performance under this Contract. The inspection and/or audit will be confined to those matters connected with the performance of the Contract including, but not limited to, the costs of administering the Contract. The County will provide reasonable notice of such an audit or inspection.

The County reserves the right to audit and verify the Contractor's records before final payment is made. Contractor agrees to maintain such records for possible audit for a minimum of three years after final payment, unless a longer period of records retention is stipulated under this Contract or by law. Contractor agrees to allow interviews of any employees or others who might reasonably have information related to such records. Further, Contractor agrees to include a similar right to the County to audit records and interview staff of any subcontractor related to performance of this Contract.

Should the Contractor cease to exist as a legal entity, the Contractor's records pertaining to this agreement shall be forwarded to the County's Contract coordinator.

#### **BB. Contingency of Funds**

Contractor acknowledges that funding or portions of funding for this Contract may be contingent upon state budget approval; receipt of funds from, and/or obligation of funds by, the state of California to County; and inclusion of sufficient funding for the services hereunder in the budget approved by County's Board of Supervisors for each fiscal year covered by this Contract. If such approval, funding

or appropriations are not forthcoming, or are otherwise limited, County may immediately terminate or modify this Contract without penalty.

### **CC. Expenditure Limit**

The Contractor shall notify the County of Orange assigned Deputy Purchasing Agent in writing when the expenditures against the Contract reach 75 percent of the dollar limit on the Contract. The County will not be responsible for any expenditure overruns and will not pay for work exceeding the dollar limit on the Contract unless a change order to cover those costs has been issued.

### **Additional Terms and Conditions**

#### **1. Scope of Contract**

This Contract specifies the contractual terms and conditions by which the County will procure a Passenger Loading Bridge and Baggage Handling System Maintenance from Contractor as further detailed in the Scope of Work, identified and incorporated herein by this reference as "Attachment A".

#### **2. Term of Contract**

~~This Contract shall commence January 14, 2019 and shall continue for 3 years from that date, unless otherwise terminated by County.~~ The Contract is hereby renewed and shall commence January 14, 2022 and shall continue through January 13, 2023, unless otherwise terminated by County.

#### **4.3. Contract Amount Not to Exceed**

Contract amount not to exceed ~~\$12,061,547.00~~ \$4,273,116.00

#### **5.4. Renewable Annually with Concurrence**

This Contract may be renewed, by mutual written agreement of both Parties for ~~two~~ one (21) additional (1) year terms. The County does not have to give reason if it elects not to renew. Renewal periods may be subject to approval by the County of Orange Board of Supervisors.

#### **6.5. Adjustments – Scope of Work**

No adjustments made to the Scope of Work will be authorized without the prior written approval of the County assigned Deputy Purchasing Agent.

#### **7.6. Airport Security**

Contractor, Contractor's employees and Contractor's subcontractors must complete a background clearance SIDA class in order to obtain an I.D. badge.

Badge Acquisition: Prior to issuance of a security badge(s), designated Contractor personnel who shall be working on-site at JWA terminal, and engaged in the performance of work under this Contract must pass JWA's screening requirements, which include an F.B.I. background investigation (fingerprinting) and Security Threat Assessment (STA) (estimated fee is \$27.00 for fingerprinting and \$11.00 for STA per person.). It may take up to two weeks to obtain clearance. Contractor's designated personnel shall need to take a 2-hour SIDA training class at JWA and pass the written test (estimated fee is \$10.00 per person). Contractor shall be responsible for all costs associated with the background checks, and abide by all of the security requirements set forth by the Transportation Security Agency (TSA) and JWA. Contractor's designated personnel must successfully complete the badge acquisition within 14 days of Contract execution, unless other arrangements have been coordinated by County Project Coordinator or designee in writing.

Driving Endorsement: In addition to obtaining a JWA access control badge, Contractor's service staff must also take an Airport provided training course and pass a test to acquire an airfield driving endorsement.

Badge Holder Requirements and Responsibilities: TSA approved security program for JWA requires that each person issued a JWA security badge is made aware of his/her responsibilities regarding the privilege of access to restricted areas of JWA.

All persons within the restricted air operation areas of JWA are required to display, on their person, a JWA security badge; unless they are specifically exempted for safety reasons or they are under escort by a properly badge individual. Each JWA employee, JWA Contractor, subcontractor or tenant

employee who has been issued a JWA security badge is responsible for challenging any individual who is not properly displaying a JWA issued or approved and valid identification badge. Any person who is not properly displaying or who cannot produce a valid JWA security badge must immediately be referred to the Sheriff's Department - Airport Police Services Office for proper handling.

JWA security badge is the property of County and must be returned upon termination of Contractor personnel employment and/or termination, expiration or completion of Contract. The loss of a badge shall be reported within 24 hours to the Sheriff's Department - Airport Police Services by calling (949) 252-5000. Individuals that lose their badge shall be required to pay a fee before receiving a replacement badge. The charge for lost badge replacement shall be at the current posted rate located in the JWA Administration Office. A report shall be made before a replacement badge shall be issued.

JWA security badge is nontransferable.

In the event that a contractor's badge is not returned to JWA upon termination of Contractor personnel employment and/or termination or expiration of Contract, a fine of \$250.00 per badge shall be charged to Contractor. Contractor's final payment may be held by County or a deduction from contractor's payment(s) may be made to ensure that funding is available to cover the fine in the event that badges are not returned.

Contractor shall submit the names, addresses, and driver's license numbers for all Contractor personnel who shall be engaged in work under this Contract to County Project Coordinator within seven days after award of the Contract or within seven days after the start of any new Contractor personnel and/or prior to the start of any work.

No worker shall be used in performance of this work that has not passed the background check.

#### **8.7. Americans with Disabilities Act (ADA)**

Section 504 of the Rehabilitation Act of 1973 as amended; Title VI and VII of the Civil Rights Act of 1964 as amended; Americans with Disabilities Act, 42 USC 12101; California Code of Regulations, Title 2, Title 22: California Government Code, Sections 11135, et seq; and other federal and state laws and executive orders prohibit discrimination. All programs, activities, employment opportunities, and services must be made available to all persons, including persons with disabilities.

#### **9.8. Anti-Idling Policy**

Within six months of Contract execution, Contractor must develop, implement and submit to the Airport Director for approval a fleet-wide anti-idling policy. At a minimum, the anti-idling policy shall include the requirement that vehicle engines shall be turned off when vehicles are not occupied, and that occupied vehicles be turned off after no more than a five-minute idling period. Contractor's policy shall also include all third party vehicles that enter Airport property at the direction of Contractor.

#### **10.9. Bills and Liens**

Contractor shall pay promptly all indebtedness for labor, materials and equipment used in performance of the work. Contractor shall not permit any lien or charge to attach to the work or the premises, but if any does so attach, Contractor shall promptly procure its release and, in accordance with the requirements of paragraph "Z" above, indemnify, defend, and hold County harmless and be responsible for payment of all costs, damages, penalties and expenses related to or arising from or related thereto.

#### **11.10. Breach of Contract**

The failure of the Contractor to comply with any of the provisions, covenants or conditions of this Contract shall be a material breach of this Contract. In such event the County may, and in addition to any other remedies available at law, in equity, or otherwise specified in this Contract:

- a. Terminate the Contract immediately, pursuant to Section K herein;
- b. Afford the Contractor written notice of the breach and ten (10) calendar days or such shorter time that may be specified in this Contract within which to cure the breach;

- c. Discontinue payment to the Contractor for and during the period in which the Contractor is in breach; and
- d. Offset against any monies billed by the Contractor but yet unpaid by the County those monies disallowed pursuant to the above.

#### **12.11. Civil Rights**

Contractor attests that services provided shall be in accordance with the provisions of Title VI and Title VII of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973, as amended; the Age Discrimination Act of 1975 as amended; Title II of the Americans with Disabilities Act of 1990, and other applicable State and federal laws and regulations prohibiting discrimination on the basis of race, color, national origin, ethnic group identification, age, religion, marital status, sex or disability.

#### **13.12. Conditions Affecting Work**

The Contractor shall be responsible for taking all steps reasonably necessary to ascertain the nature and location of the work to be performed under this Contract and to know the general conditions which can affect the work or the cost thereof. Any failure by the Contractor to do so will not relieve Contractor from responsibility for successfully performing the work without additional cost to the County. The County assumes no responsibility for any understanding or representations concerning the nature, location(s) or general conditions made by any of its officers or agents prior to the execution of this Contract, unless such understanding or representations by the County are expressly stated in the Contract.

#### **14.13. Conflict of Interest – Contractor’s Personnel**

The Contractor shall exercise reasonable care and diligence to prevent any actions or conditions that could result in a conflict with the best interests of the County. This obligation shall apply to the Contractor; the Contractor’s employees, agents, and subcontractors associated with accomplishing work and services hereunder. The Contractor’s efforts shall include, but not be limited to establishing precautions to prevent its employees, agents, and subcontractors from providing or offering gifts, entertainment, payments, loans or other considerations which could be deemed to influence or appear to influence County staff or elected officers from acting in the best interests of the County.

#### **15.14. Conflict of Interest – County Personnel**

The County of Orange Board of Supervisors policy prohibits its employees from engaging in activities involving a conflict of interest. The Contractor shall not, during the period of this Contract, employ any County employee for any purpose.

#### **16.15. Contractor Personnel – Drug-Free Workplace**

The Contractor hereby certifies compliance with Government Code Section 8355 in matters relating to providing a drug-free workplace. The Contractor will:

- A. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations, as required by Government Code Section 8355(a)(1).
- B. Establish a drug-free awareness program as required by Government Code Section 8355(a)(2) to inform employees about all of the following:
  - a. The dangers of drug abuse in the workplace;
  - b. The organization’s policy of maintaining a drug-free workplace;
  - c. Any available counseling, rehabilitation and employee assistance programs; and
  - d. Penalties that may be imposed upon employees for drug abuse violations.
- C. Provide as required by Government Code Section 8355(a)(3) that every employee who works under this Contract:

- a. Will receive a copy of the company's drug-free policy statement; and
- b. Will agree to abide by the terms of the company's statement as a condition of employment under this Contract.

Failure to comply with these requirements may result in suspension of payments under the Contract or termination of the Contract or both, and the Contractor may be ineligible for award of any future County contracts if the County determines that any of the following has occurred:

- D. The Contractor has made false certification, or
- E. The Contractor violates the certification by failing to carry out the requirements as noted above.

#### **17.16. Contractor Personnel – Reference Checks**

The Contractor warrants that all persons employed to provide service under this Contract have satisfactory past work records indicating their ability to adequately perform the work under this Contract. Contractor's employees assigned to this contract must meet character standards as demonstrated by background investigation and reference checks, coordinated by the agency/department issuing this Contract.

#### **18.17. Contractor's Project Manager and Key Personnel**

Contractor shall appoint a Project Manager to direct the Contractor's efforts in fulfilling Contractor's obligations under this Contract. This Project Manager shall be subject to approval by the County and shall not be changed without the written consent of the County's Contract coordinator, which consent shall not be unreasonably withheld.

The Contractor's Project Manager shall be assigned to this project for the duration of the Contract and shall diligently pursue all work and services to meet the project time lines. The County's Contract coordinator shall have the right to require the removal and replacement of the Contractor's Project Manager from providing services to the County under this Contract. The County's Contract coordinator shall notify the Contractor in writing of such action. The Contractor shall accomplish the removal within three (3) business days after written notice by the County's Contract coordinator. The County's Contract coordinator shall review and approve the appointment of the replacement for the Contractor's Project Manager. The County is not required to provide any additional information, reason or rationale in the event it requires the removal of Contractor's Project Manager from providing further services under the Contract.

#### **19.18. Contractor's Records**

The Contractor shall keep true and accurate accounts, records, books and data which shall correctly reflect the business transacted by the Contractor in accordance with generally accepted accounting principles. These records shall be stored in Orange County for a period of three (3) years after final payment is received from the County. Storage of records in another county will require written approval from the County of Orange assigned Deputy Purchasing Agent.

#### **20.19. Cost/Price Data**

At all times during and following the period of Contract performance, the County may require Contractor to furnish such cost and pricing data as the County deems necessary to assess the reasonableness of Contract pricing, including the reasonableness of changes. Contractor agrees to maintain such records for a minimum of three (3) years after final payment, unless a longer period of records retention is stipulated under this Contract or by law.

#### **21.20. Data – Title To**

All materials, documents, data or information obtained from the County data files or any County medium furnished to the Contractor in the performance of this Contract will at all times remain the property of the County. Such data or information may not be used or copied for direct or indirect use

by the Contractor after completion or termination of this Contract without the express written consent of the County. All materials, documents, data or information, including copies, must be returned to the County at the end of this Contract.

**22.21. Debarment**

Contractor shall certify that neither Contractor nor its principles are presently debarred, proposed for debarment, declared ineligible or voluntarily excluded from participation in the transaction by any Federal department or agency.

**23.22. Default – Equipment, Software or Service**

In the event any equipment, software or service furnished by the Contractor in the performance of this Contract should fail to conform to the specifications therein, the County may reject same, and it shall become the duty of the Contractor to reclaim and remove the items without expense to the County and to immediately replace all such rejected equipment, software or service with others conforming to such specifications, provided that should the Contractor fail, neglect or refuse to do so, the County shall have the right to purchase on the open market a corresponding quantity of any such equipment, software or service and to deduct from any monies due or that may thereafter become due to the Contractor the difference between the price specified in this Contract and the actual cost to the County.

In the event the Contractor shall fail to make prompt delivery as specified of any equipment, software or service, the same conditions as to the rights of the County to purchase on the open market and to reimbursement set forth above shall apply, except as otherwise provided in this Contract.

In the event of the cancellation of this Contract, either in whole or in part, by reason of the default or breach by the Contractor, any loss or damage sustained by the County in procuring any equipment, software or service which the Contractor agreed to supply under this Contract shall be borne and paid for by the Contractor.

The rights and remedies of the County provided above shall not be exclusive and are in addition to any other rights and remedies provided by law or under the Contract.

**24.23. Discounts – Prompt Payment**

The County of Orange shall process payments with discounts offered for prompt payment and the checks for those payments. If disputes arise over the timeliness of the payment, the date of the postmark shall be the determining factor. The County shall not be held responsible for delays by the US Postal Service, and no additional payment shall be due the Contractor in the event of such delay.

**25.24. Disputes - Contract**

A. The parties shall deal in good faith and attempt to resolve potential disputes informally. If the dispute concerning a question of fact arising under the terms of this Contract is not disposed of in a reasonable period of time by the Contractor's Project Manager and the County's Contract coordinator, such matter shall be brought to the attention of the County Deputy Purchasing Agent by way of the following process:

1. The Contractor shall submit to the agency/department assigned Deputy Purchasing Agent a written demand for a final decision regarding the disposition of any dispute between the parties arising under, related to, or involving this Contract, unless the County, on its own initiative, has already rendered such a final decision.
2. The Contractor's written demand shall be fully supported by factual information, and, if such demand involves a cost adjustment to the Contract, the Contractor shall include with the demand a written statement signed by a senior official indicating that the demand is made in good faith, that the supporting data are accurate and complete, and that the amount requested accurately reflects the Contract adjustment for which the Contractor believes the County is liable.



- B. Pending the final resolution of any dispute arising under, related to, or involving this Contract, the Contractor agrees to diligently proceed with the performance of this Contract, including the delivery of goods and/or provision of services. The Contractor's failure to diligently proceed shall be considered a material breach of this Contract.

Any final decision of the County shall be expressly identified as such, shall be in writing, and shall be signed by the County Deputy Purchasing Agent or his designee. If the County fails to render a decision within 90 days after receipt of the Contractor's demand, it shall be deemed a final decision adverse to the Contractor's contentions. Nothing in this section shall be construed as affecting the County's right to terminate the Contract for cause or termination for convenience as stated in section K herein.

**26.25. Emergency/Declared Disaster Requirements**

In the event of an emergency or if Orange County is declared a disaster area by the County, state or federal government, this Contract may be subjected to unusual usage. The Contractor shall service the County during such an emergency or declared disaster under the same terms and conditions that apply during non-emergency/disaster conditions. The pricing quoted by the Contractor shall apply to serving the County's needs regardless of the circumstances. If the Contractor is unable to supply the goods/services under the terms of the Contract, then the Contractor shall provide proof of such disruption and a copy of the invoice for the goods/services from the Contractor's supplier(s). Additional profit margin as a result of supplying goods/services during an emergency or a declared disaster shall not be permitted. In the event of an emergency or declared disaster, emergency purchase order numbers will be assigned. All applicable invoices from the Contractor shall show both the emergency purchase order number and the Contract number.

**27.26. Equal Employment Opportunity**

The Contractor shall comply with U.S. Executive Order 11246 entitled, "Equal Employment Opportunity" as amended by Executive Order 11375 and as supplemented in Department of Labor regulations (41 CFR, Part 60) and applicable state of California regulations as may now exist or be amended in the future. The Contractor shall not discriminate against any employee or applicant for employment on the basis of race, color, national origin, ancestry, religion, sex, marital status, political affiliation or physical or mental condition.

Regarding handicapped persons, the Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap in regard to any position for which the employee or applicant for employment is qualified. The Contractor agrees to provide equal opportunity to handicapped persons in employment or in advancement in employment or otherwise treat qualified handicapped individuals without discrimination based upon their physical or mental handicaps in all employment practices such as the following: employment, upgrading, promotions, transfers, recruitments, advertising, layoffs, terminations, rate of pay or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to comply with the provisions of Sections 503 and 504 of the Rehabilitation Act of 1973, as amended, pertaining to prohibition of discrimination against qualified handicapped persons in all programs and/or activities as detailed in regulations signed by the Secretary of the Department of Health and Human Services effective June 3, 1977, and found in the Federal Register, Volume 42, No. 68 dated May 4, 1977, as may now exist or be amended in the future.

Regarding Americans with disabilities, Contractor agrees to comply with applicable provisions of Title 1 of the Americans with Disabilities Act enacted in 1990 as may now exist or be amended in the future.

**28.27. Errors and Omissions**

All reports, files and other documents prepared and submitted by Contractor shall be complete and shall be carefully checked by the professional(s) identified by Contractor as project manager and key

personnel attached hereto, prior to submission to the County. Contractor agrees that County review is discretionary and Contractor shall not assume that the County will discover errors and/or omissions. If the County discovers any errors or omissions prior to approving Contractor's reports, files and other written documents, the reports, files or documents will be returned to Contractor for correction. Should the County or others discover errors or omissions in the reports, files or other written documents submitted by the Contractor after County approval thereof, County approval of Contractor's reports, files or documents shall not be used as a defense by Contractor in any action between the County and Contractor, and the reports, files or documents will be returned to Contractor for correction

#### **29.28. Faithful Performance Bond**

Contractor will provide to County a Faithful Performance Bond in an amount equal to **25% the annual Contract amount**. Bonds must be submitted to County on County provided forms within seven (7) calendar days of award notification and prior to the official Contract award. Prior to the provisions of services under this Contract, Contractor agrees to purchase the required bond at Contractor's expense and to deposit with County the required bond necessary to satisfy County requirements and to keep such bond on deposit with County during the entire term of this Contract. Said bond shall be secured from an admitted surety company authorized to conduct surety insurance in California and satisfactory to County Offices of County Counsel and Risk Management and in accordance with the General Conditions.

If any surety upon any bond furnished in connection with this Contract becomes unacceptable to County, or if any such surety fails to furnish reports as to its financial condition from time to time as requested by County, Contractor shall promptly furnish such additional security as may be required by County from time to time to protect the interests of the County and of persons supplying labor or materials in the prosecution of the work contemplated by this Contract.

County shall return bonds to Contractor after successful completion of all Contractor's obligations and services required under the Contract.

#### **30.29. Gratuities**

The Contractor warrants that no gratuities, in the form of entertainment, gifts or otherwise, were offered or given by the Contractor or any agent or representative of the Contractor to any officer or employee of the County with a view toward securing the Contract or securing favorable treatment with respect to any determinations concerning the performance of the Contract. For breach or violation of this warranty, the County shall have the right to terminate the Contract, either in whole or in part, and any loss or damage sustained by the County in procuring on the open market any goods or services which the Contractor agreed to supply shall be borne and paid for by the Contractor. The rights and remedies of the County provided in the clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under the Contract.

#### **31.30. Headings**

The various headings and numbers herein, the grouping of provisions of this Contract into separate clauses and paragraphs, and the organization hereof are for the purpose of convenience only and shall not limit or otherwise affect the meaning hereof.

#### **32.31. Inventions**

If any discovery or invention arises or is developed in the course of, or as a result of work performed under this Contract, the Contractor shall refer the discovery or invention to the County.

#### **33.32. News/Information Release**

The Contractor agrees that it will not issue any news releases in connection with either the award of this Contract or any subsequent amendment of or effort under this Contract without first obtaining review and written approval of said news releases from the County through the County's Contract coordinator.



**34.33. Nondiscrimination – Statement of Compliance**

The Contractor's signature affixed hereon and dated shall constitute a certification under penalty of perjury under the laws of the state of California that the Contractor has, unless exempted, complied with the nondiscrimination program requirements of Government Code Section 12900 (a-f) and Title 2, California Code of Regulations, Sections 11102 and 11103.

**35.34. Notices**

Any and all notices, requests demands and other communications contemplated, called for, permitted, or required to be given hereunder shall be in writing with a copy provided to the assigned Deputy Purchasing Agent (DPA), except through the course of the parties' project/contract coordinators' routine exchange of information and cooperation during the terms of the work and services. Any written communications shall be deemed to have been duly given upon actual in-person delivery, if delivery is by direct hand, or upon delivery on the actual day of receipt or no greater than four (4) calendar days after being mailed by US certified or registered mail, return receipt requested, postage prepaid, whichever occurs first. The date of mailing shall count as the first day. All communications shall be addressed to the appropriate party at the address stated herein or such other address as the parties hereto may designate by written notice from time to time in the manner aforesaid.

- Contractor: ~~John Bean Technologies Corporation DBA JBT~~  
AeroTech ~~Services Corporation~~  
Project Manager ~~Brent Ahlstrom Frank Moore~~  
1805 West 2550 South  
Ogden, UT 84401  
Phone: (801) 629-~~3121~~3264  
Email: ~~brent.ahlstromfrank.moore~~@jbtc.com
- County: JWA/Maintenance  
Contract Coordinator ~~Martin Ness Roger Yee~~  
3180 Airway Avenue  
Costa Mesa, CA 92626  
Phone: (949) 252-~~7566~~5095  
Email: ~~MNessryee~~@ocair.com
- Assigned DPA: JWA/Procurement  
Attention: ~~Monica Rodriguez~~~~Maria Albelo~~, DPA  
3160 Airway Avenue  
Costa Mesa, CA 92626  
Phone: (949) 252-~~5240~~5175  
Email: ~~MMRodriguezmalbelo~~@ocair.com

**36.35. Order Dates**

Orders may be placed during the term of the Contract even if delivery may not be made until after the term of the Contract. The Contractor must clearly identify the order date on all invoices to County and the order date must precede the expiration date of the Contract.

**37.36. Ownership of Documents**

The County has permanent ownership of all directly connected and derivative materials produced under this Contract by the Contractor. All documents, reports and other incidental or derivative work or materials furnished hereunder shall become and remain the sole property of the County and may be used by the County as it may require without additional cost to the County. None of the documents, reports and other incidental or derivative work or furnished materials shall be used by the Contractor without the express written consent of the County.

**38.37. Prevailing Wage (Labor Code §1773)**

Pursuant to the provisions of Section 1773 et seq. of the California Labor Code, the Contractor shall comply with the general prevailing rates of per diem wages and the general prevailing rates for holiday and overtime wages in this locality for each craft, classification, or type of worker needed to execute this Contract. The rates are available from the Director of the Department of Industrial Relations at the following website: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>. The Contractor shall post a copy of such wage rates at the job site and shall pay the adopted prevailing wage rates. The Contractor shall comply with the provisions of Sections 1775 and 1813 of the Labor Code.

**39.38. Price Increase/Decrease**

No price increases will be permitted during the first period of the price agreement. The County requires documented proof of cost increases on Contracts prior to any price adjustment. A minimum of 30-days advance notice in writing is required to secure such adjustment. No retroactive price adjustments will be considered. All price decreases will automatically be extended to the County of Orange. The County may enforce, negotiate, or cancel escalating price Contracts or take any other action it deems appropriate, as it sees fit. The net dollar amount of profit will remain firm during the period of the Contract. Adjustments increasing the Contractor's profit will not be allowed.

**40.39. Registration of Contractors**

Contractors and all subcontractors must comply with the requirements of labor code section 1771.1(a), pertaining to registration of Contractors pursuant to section 1725.5. Registration and all related requirements of those sections must be maintained throughout the performance of the Contract.

**41.40. Remedies Not Exclusive**

The remedies for breach set forth in this Contract are cumulative as to one another and as to any other provided by law, rather than exclusive; and the expression of certain remedies in this Contract does not preclude resort by either party to any other remedies provided by law.

**42.41. Reprocurement Costs**

In case of Contract breach by Contractor, resulting in termination by the County, the County may procure the goods and/or services from other sources. If the cost for those goods and/or services is higher than under the terms of the existing Contract, Contractor will be responsible for paying the County the difference between the Contract cost and the price paid, and the County may deduct this cost from any unpaid balance due the Contractor. The price paid by the County shall be the prevailing market price at the time such purchase is made. This is in addition to any other remedies available under this Contract and under law.

**43.42. Subcontracting**

No performance of this Contract or any portion thereof may be subcontracted by the Contractor without the express written consent of the County. Any attempt by the Contractor to subcontract any performance of this Contract without the express written consent of the County shall be invalid and shall constitute a breach of this Contract.

In the event that the Contractor is authorized by the County to subcontract, this Contract shall take precedence over the terms of the Contract between Contractor and subcontractor, and shall incorporate by reference the terms of this Contract. The County shall look to the Contractor for performance and indemnification and not deal directly with any subcontractor. All work performed by a subcontractor must meet the approval of the County of Orange.

**44.43. Termination - Orderly**

After receipt of a termination notice from the County of Orange, the Contractor may submit to the County a termination claim, if applicable. Such claim shall be submitted promptly, but in no event later than 60 days from the effective date of the termination, unless one or more extensions in writing are granted by the County upon written request of the Contractor. Upon termination County agrees to pay the Contractor for all services performed prior to termination which meet the requirements of the

Contract, provided, however, that such compensation combined with previously paid compensation shall not exceed the total compensation set forth in the Contract. Upon termination or other expiration of this Contract, each party shall promptly return to the other party all papers, materials, and other properties of the other held by each for purposes of performance of the Contract.

**45.44. Waivers - Contract**

The failure of the County in any one or more instances to insist upon strict performance of any of the terms of this Contract or to exercise any option contained herein shall not be construed as a waiver or relinquishment to any extent of the right to assert or rely upon any such terms or option on any future occasion.

**Signature Page**

*In Witness Whereof*, Parties hereto have executed this Contract on the dates shown below their respective signatures below.

~~John Bean Technologies Corporation DBA JBT AeroTech Services Corporation~~\*

Signature	Name	Title	Date
-----------	------	-------	------

Signature	Name	Title	Date
-----------	------	-------	------

*\*If Contractor is a corporation, signatures of two specific corporate officers are required as further set forth:*

*The first signature must be one of the following: a) Chairman of the Board b) President or c) any Vice President.*

*The second signature must be one of the following: a) Secretary; b) Chief Financial Officer; c) any Assistant Secretary or d) any Assistant Treasurer.*

*In the alternative, a single corporate signature is acceptable when accompanied by a corporate resolution demonstrating the legal authority of the signature to bind the company.*

**County Authorized Signature**

Deputy Purchasing Agent

Signature	Name	Title	Date
-----------	------	-------	------

Approved by the Board of Supervisors on: \_\_\_\_\_

Approved as to Form:

County Counsel

By: \_\_\_\_\_

Deputy

Date: \_\_\_\_\_

## Attachment A Scope of Work

### A. General

#### 1. Background

John Wayne Airport (JWA) is owned and operated by the County of Orange as the only commercial service Airport in Orange County, California. JWA is located approximately 35 miles south of Los Angeles, between the cities of Costa Mesa, Newport Beach, Irvine and Santa Ana. JWA is open 24 hours a day, seven days a week. Commercial aircraft operations are limited from 7:00 AM to 11:00 PM, Monday through Saturday and 8:00 AM to 11:00 PM on Sundays.

#### 2. General Scope

Contractor shall provide all preventative maintenance services such as labor, materials, tools, supplies, lubricants, equipment, transportation and supervision necessary to operate and maintain the baggage conveyor systems for Terminals A, B, and C, 20 Passenger Loading Bridges, 20 NOVA baggage slides/wheelchair lifts, 20 Preconditioned Air Units, 20 Inet 400hz ground power units, 44 Ramp Rubbish Bins, 13 Baggage Carousels. Contractor shall perform filter and belt changes on TSA Bag Screening Room A/C Units and maintain associated condensate pumps, maintain the Baggage Handling Conveyor Systems and Baggage Fire Doors, on a 24 hour a day, 7 days per week basis, and fulfill all requirements in accordance with the best commercial practices, consistent with the intended design and usage as defined in the Original Equipment Manufacturers O&M manuals, and as acceptable to County. Contractor shall provide all the service maintenance requirements, including emergency repairs as may be required to maintain proper functioning, operation and reliability.

JWA's Baggage Handling System consists of 13 Baggage Carousels and approximately 16,000 linear feet of belt conveyor. The conveyor system also serves the baggage screening rooms where the TSA in-line baggage electronic screening equipment is housed. All conveyor segments leading up to and leaving the electronic screening equipment will be covered in the scope of this maintenance Contract as well as the maintenance for the PLC controls, variable speed drives, belt indexing system hardware, vertical sorter, and horizontal pusher/diverter.

The BHS system is operational for over 97% of the time during our operating hours. The PLBs are operational over 99% of the time during our operating hours.

There are 4 Ticket and 2 curbside induction points in Terminals A and B, 2 ticket counter and 2 curbside induction points for terminal C, Cookson and Atlas roll down security/fire doors, SICK ATR units, Webb VSU's, Webb pushers and Siemens HSD's, Portec and Transnorm Power Turns.

There are 14 ATR arrays total. Two inbound and two outbound for each of the 3 terminals. (12) and 1 international inbound in C and 1 oversized inbound in C.

The baggage system is split into three (3) portions, one (1) in each of Terminals A, B, and C. Each portion of the system contains approximately 1/3 of the total linear conveyor belt length and carousels. The diagram included in Attachment I illustrates the Baggage Handling Systems.

Terminals A and B each have 2 inbound and 2 outbound (4 for each terminal) manufactured by Stearns. Terminal C has 2 outbound and 3 inbound for a total of 13 manufactured by Jervis Webb.

As a part of the Scope of Work, Contractor shall provide iOPS or equivalent Gate System Monitoring and Consolidated Baggage Handling System Monitoring for terminals A, B and C. Costs shall be incorporated into the fixed monthly/annual cost for services.

The Airport provides the ramp trash carts. There are a total of 26 carts. 22 carts need to be out at all times. The trash carts are hauled to a site that contains a dedicated trash compactor. The compactor site is located approximately 100 yards to the north of Terminal A. Presently, the carts are hauled in tandem from the gates. The operator normally hooks up carts to a Ford Ranger Pickup (NOT owned

by the Airport) and pulls the line of 4 or 5 of carts to the compactor site. The operator pushes one cart at a time onto the integral lifting arms of the compactor, lifts the cart to empty it, and then proceeds with the next cart. Cycle time varies. Travel, aircraft activity, trash volume (more trash requires more compaction), and other factors affect the operation. Distance between control rooms is about 700 feet

This Contract is a Fixed-Fee Contract. Additional funding is also established to cover Additional Repairs and Work. This shall include parts replacement, additional repairs and work, training, and/or services for items above and beyond the requirements set herein, as well as programming, consulting, and troubleshooting support from the conveyor system manufacturer. A portion of additional funding will be dedicated to a subcontracted agreement between Contractor and Daifuku Material Handling Inc. (formerly Jervis B. Webb, Inc.) and Brock Solutions for telephone and onsite technical support.

### **3. Definitions**

#### **3.1 Routine Maintenance**

Procedures that will maintain the overall condition of the Passenger Loading Bridges, Preconditioned Air Units, the Rubbish Containers and the Baggage Handling System in its entirety. This includes, but is not limited to, daily, weekly quarterly, semi-annual and annual preventive maintenance tasks such as cleaning, adjusting, lubricating, and repairing or replacing of normal wear and tear of parts. Preventive maintenance tasks are generated by JWA's Computerized Maintenance Management System (CMMS).

#### **3.2 Routine Repairs**

Repairs due to normal wear and tear, which are covered under the fixed price portion of this Contract.

#### **3.3 Additional Repairs & Work**

Scheduled repairs of a non-routine nature, upgrades, alterations and improvements to the Passenger Loading Bridges, Preconditioned Air Units, and the Rubbish Containers and the Baggage Handling System.

#### **3.4 Emergency Repairs**

Work required mitigating any unforeseen equipment malfunctions or failures that present an immediate and significant danger to property and/or lives or that might have a significant impact on daily operations.

#### **3.5 Callbacks**

Work required mitigating unacceptable conditions of specific equipment worked on by Contractor within the previous ninety (90) days.

#### **3.6 Response Time**

The elapsed time period between the placement of a call, by a JWA Representative requesting service and the time of arrival to the job site.

#### **3.7 Normal Working Hours**

Straight Time Hours are defined as Monday through Friday, excluding holidays.

#### **3.8 Overtime Hours**

Hours defined as other than normal working hours in excess of 8 hours per day. No overtime shall be worked until prior approval is obtained from Project Coordinator or designee.

#### **3.9 Computerized Maintenance Management System (CMMS)**

A computer-based system used by JWA Maintenance to schedule and track preventative and corrective maintenance work tasks.

## B. Contractor Responsibility

### 1. Staffing

- 1.1 Contractor's service technicians and supervisors shall have a minimum of five (5) years' experience maintaining Passenger Loading Bridges, Jervis Webb Baggage Carousels, Baggage Handling Conveyor Systems, and Baggage System Fire Doors or equivalent/comparable equipment from other manufactures.

Contractor shall directly employ the service technicians working at JWA. Contractor shall provide a complete staffing schedule, showing in detail, the days, hours and number of staff working on a weekly basis.

There are currently four (4) locations outside of JWA's Service Desk where real time monitoring of the baggage system can be done for Terminals A and B. There are two (2) in Contractor's office/shop/storage space on the commercial ramp in Terminal A, one (1) in Terminal A TSA baggage screening room (can only view the north baggage system), and one (1) in Terminal B TSA baggage screening room (can only view the south baggage system). For Terminal C, there are two (2) monitoring locations: one is at the JWA Service Desk and one in the Terminal C BHS control room. It is the Contractor's responsibility to provide monitoring services and respond appropriately to baggage system issues.

Additionally, there are 44 Rubbish Bins located on the commercial ramp at JWA. These bins are required to be emptied three (3) times per 24-hour period at 10:00 AM, 3:00 PM, and 10:00 PM, 365 days per year for the duration of Contract. Contractor is required to provide a vehicle capable of towing the Rubbish Bins from their locations on the Air Operations Area (AOA) ramp compactor. If JWA decides to take over the responsibility of emptying the ramp rubbish containers, this Contract will be administratively reduced by the amount indicated for this task in the schedule of deductions.

It is Contractor's responsibility to provide the appropriate number of technician/service staff positions to perform the maintenance services and the minimum response time requirements for the equipment described in this Scope of Work.

- 1.2 Contractor's technicians shall be factory trained and certified by the original equipment manufacturer to provide the maintenance services on the Passenger Loading Bridges, Ground Power, and Jet Aire equipment. Certificates of requirements and acquire a JWA access control badge within one (1) week of the effective start date of the Contract (See Contract Additional Terms and Conditions "Airport Security.") On an emergency basis and at no additional cost, Contractor shall provide personnel coverage for JWA's Service Desk to cover Passenger Loading Bridge or Baggage Handling System Maintenance issues only.

Contractor shall also provide and utilize a biometric reading device as a means of verification for employee sign in and out. Copies of all sign in/out records as recorded by the biometric device, as well as copies of payroll documents will be supplied to County on a monthly basis. Failure to provide this information may lead to deductions for the invoice covering the time period where this information was not provided.

Contractor shall have and maintain a pool of backup service technicians who are equally qualified in all respects to assume the responsibilities of the maintenance of all equipment covered by this Contract in the event of sickness or other causes of absence of the assigned technicians.

- 1.3 Contractor shall provide on-going training to its employees as recommended by the original equipment manufacturer, for the Passenger Loading Bridges, Preconditioned Air Units, 120 KVA Ground Power Units and the Rubbish Bins, and the Baggage Handling System manufacturers or directly related training if the manufacturers should no longer exist.
- 1.4 Contractor shall provide a complete training schedule and define the on-going training program for supervisory and technical personnel so that no fluctuations in the required level of service occur, regardless of the reasons.
- 1.5 Contractor must provide at least one employee who possesses a current Refrigerant Transition

Recovery Program Certificate of Completion required by 40 CFR Part 82, Subpart F of the EPA Approved Program. Contractor shall provide any and all State or Federal certifications throughout the term of this Contract.

- 1.6 Contractor will fill any temporary staffing vacancies on an overtime basis and have the position permanently filled within 30 days of vacating.
- 1.7 Contractor shall not use subcontractors in any manner without prior written approval by the County's Project Coordinator or designee.
- 1.8 Contractor's employees shall wear uniforms with company insignias when engaged at work at JWA.
- 1.9 Contractor will provide County with an Injury and Illness Prevention Plan as part of this Contract before the commencement of work.

## **2. Airport Security**

- 2.1 All Contractor's employees must meet the security requirements and acquire a JWA access control badge within one (1) week of the effective start date of the Contract (See Contract Additional Terms and Conditions "Airport Security"). All costs associated with badging are Contractor's responsibility.
- 2.2 Terminal C has two (2) designated international flex gates currently being used for international arrivals from Mexico. These gates are operated under the jurisdiction of the Customs and Border Protection (CBP). Contractor will need to provide CBP approved staff to work these gates, as well as the international inbound baggage systems. Customs badges are at no additional cost over the cost of the original badge. Those will be limited to individuals who need to work in that area though.

## **C. Contractor Performance**

### **1. Routine and Preventative Maintenance and Repair**

- 1.1 Contractor shall provide routine maintenance and repairs for the equipment as described in this Contract. Contractor shall insure that all routine work shall not adversely affect the operations of JWA. The services shall be performed diligently and without unnecessary delays during periods scheduled for service. Contractor shall respond within the response times required herein. Contractor's personnel shall work continuously until the critical malfunctions are corrected.
- 1.2 Failure to complete the Airport issued CMMS preventative and corrective maintenance tasks by the assigned due date or failure to turn in completed CMMS paperwork within ten (10) days of the assigned due date may result in invoice deductions. Contractor shall develop and provide a detailed preventive maintenance schedule (Attachment G), in accordance with the manufacturer's recommendations and submit it to County within 30 day of Contract award for approval that shall include:
  - The Daily, Weekly, Monthly, Bi-Monthly, Quarterly, Semi-Annual, Annual, and other special circumstance preventive and corrective maintenance tasks for the Passenger Loading Bridges, 120 KVA PWM Ground Power Units, Preconditioned air units, the Potable Water Cabinets, and the rollaway Rubbish Bins. The maintenance tasks will be derived from a combination of the manufactures recommended and specified tasks along with those developed by Contractor through its experience working on the appropriate equipment.
  - The Daily, Weekly, Monthly, Bi-Monthly, Quarterly, Semi-Annual, Annual, and other special circumstance preventive and corrective maintenance tasks for the Jervis B. Webb Conveyors, Sterns and Jervis B. Webb Baggage Carousels, Trans Norm and Portec Curve Belts, VFDs, and the Atlas Fire doors. The maintenance tasks will be derived from a combination of the manufactures recommended and specified tasks along with those developed by Contractor through its experience working on the appropriate equipment.



- The Daily, Weekly, Monthly, Bi-Monthly, Quarterly, Semi-Annual, Annual and other special circumstance preventative and corrective maintenance tasks for the HVAC fan coils located within Terminals A, B and C Bag Screen rooms and the HVAC fan coils located within Contractor's offices and work space.
- 1.3 Contractor and County shall agree upon the specific day(s) of the week for service prior to the start of the Contract. Thereafter, it shall not be changed without the written approval of County's Project Coordinator, or designee.
  - 1.4 Contractor shall insure that all routine work started prior to the end of the normal workday will continue until equipment is returned to service at the rate charged for normal working hours.
  - 1.5 Contractor shall regularly and systematically examine, clean, adjust, and lubricate the Passenger Loading Bridges and the Rubbish Containers.
  - 1.6 Contractor shall regularly and systematically examine, clean, adjust, and lubricate the Baggage Fire Doors, Maxiclim Baggage Carousels and Baggage Conveyor Systems as identified in the diagrams in Attachment I.
  - 1.7 Contractor shall regularly and systematically perform filter and belt changes on TSA Bag Screening Room A/C Units and maintain associated condensate pumps.
  - 1.8 There are four (4) air handlers that the awarded contractor will be responsible to maintain: Air Handlers 10, 11, 12, and 13. These are identical air handlers, manufactured by Carrier, that supply conditioned air to the open spaces in the Terminals A and B baggage screening rooms. Each air handler has a 7.5 HP, 480 VAC, 3 phase supply fan motor, chilled water coil, and outside air economizer. The awarded contractor will be responsible for changing filters, belts, and a supply fan motor if one should go out. Siemens controls, the chilled water valve/motor, economizer damper motors, and fire alarm devices on the air handler shall remain the responsibility of the Airport. There is a rooftop air handler that provides the majority of conditioned air to the Terminal C bag screening room. That unit shall remain the responsibility of the Airport to maintain and repair. Fan coils, on the other hand, are used for spot cooling in the bag screening rooms or for providing conditioned air to a specific office or room. Fan coils are ceiling mounted with fractional horsepower blowers (usually direct drive), and chilled water coils. Awarded contractor will be responsible for changing filters and blower motors, if one should go out. Siemens controls and chilled water valves shall remain the responsibility of the Airport. There are 22 of these units currently in operation between the three bag screening rooms.
  - 1.9 It will be the Contractor's responsibility to perform all Server and BHS Network Maintenance including Uninterrupted Power Supply (UPS) replacement when necessary.

## **2. Phone Service and Dispatch**

- 2.1 County requires that Contractor maintain an on-site presence. Contractor will have staff stationed at JWA on a 24 hour a day, 7 days a week basis, Contractor shall also provide an Emergency Repair/Callback telephone service, along with a list of contact names, 24 hours per day, 365 days per year for the purpose of dispatching technicians. Contractor shall also provide a confirmation return call and an estimated time of arrival for technicians called out.
- 2.2 County shall provide Contractor with a list of JWA contact names and phone numbers within seven (7) days of the start of Contract.
- 2.3 JWA has a Service Desk where incoming service calls and work requests for the Passenger Loading Bridges, Baggage Handling System, and all other trouble calls are received and dispatched. These calls and requests are inputted into the Airport's Computerized Maintenance Management System (CMMS). The Service Desk has the ability to monitor the Baggage Handling System in real time and dispatch the appropriate service personnel immediately. For Baggage System related issues, Contractor response time for any JWA Representative requesting service shall be no longer than five (5) minutes. If responding to a baggage jam and the estimated repair time to fix the jam exceeds ten 10 minutes, Contractor is to contact the JWA Service Desk immediately at (949) 852-4004 or Radio Call Sign 730, so that the Airlines

can be notified of any possible delays. Contractor is to coordinate all issues and communicate with only JWA Maintenance or the JWA Service Desk, and is not to deal directly with the Airlines or any other terminal tenants.

For Passenger Loading Bridge related issues, Contractor response time for any JWA Representative requesting service shall be no longer than two (2) minutes. If responding to a Passenger Loading Bridge problem and the estimated repair time to fix the problem exceeds five (5) minutes, Contractor is to contact the JWA Service Desk immediately at (949) 852-4004 or Radio Call Sign 730, so that the Airlines can be notified of any possible delays. Contractor is to coordinate all issues and communicate with only JWA Maintenance or the JWA Service Desk, and is not to deal directly with the Airlines or any other terminal tenants.

Failure of Contractor to respond to service calls or information call requests by County will result in invoice deduction penalties for non-responsive service.

### **3. Service Records and Reports**

- 3.1 Contractor shall be issued repair work orders generated via JWA's CMMS. Work Orders issued by County and shall be filled out by Contractor and returned to JWA Service Desk staff upon job completion.
- 3.2 Contractor shall maintain a complete set of all records for performance, maintenance, and service repairs for the equipment located at JWA. All records shall be available for review within five (5) working days after request by County. Contractor shall maintain a set of records for the term of the Contract and shall submit one (1) complete set of records within the last thirty (30) days of the Contract. Final payment will be withheld until the complete set of records is submitted.
- 3.3 Contractor shall provide a weekly status report on the Baggage Handling System performance. This report shall include data for the last 7 days along with data up to the last 30 days. The required information to be provided shall include: number of bags by mainline, odd size baggage volume, number of alarmed bags, number of unknown bags, the unknown rate (%), the EDS reliability/operational time (%), the number of failsafe incidents, number of jams, and the average time to clear baggage jams.
- 3.4 Contractor shall provide a copy of the manufacturer's recommended maintenance plan upon written request of County's Project Coordinator or designee.
- 3.5 Contractor shall possess all updated Manufacturer's Service Bulletins and provide to County's Project Coordinator or designee a copy.
- 3.6 Contractor shall attend a scheduled weekly meeting, the Baggage Handling Strategy Team meeting with County's Project Coordinator or designee at no additional cost to County. County reserves the right to review all preventative maintenance reports. County requires Contractor's Site Coordinator, and Contractor's Maintenance Technician (if requested), to be present during the meetings.
- 3.7 Contractor shall perform complete inspections on all of the equipment covered under this Contract and file a written report which includes; unit identification, specific and detailed descriptions of all deficiencies, and a time frame to correct these deficiencies, while working in conjunction with the following agencies, if applicable:
  - Federal Aviation Administration Department of Industrial Relations State of California, California Administrative Code (CAL/OSHA)
  - California Codes for Industrial Safety
  - California 4, Division of Industrial Safety, Subchapter 5, "Electrical Safety Order"
  - Division of Occupational Safety & Health (OSHA)
  - County of Orange
  - Independent inspectors chosen by JWA to verify, inspect, and test the findings of previous inspections

- Environmental Protection Agency
- Customs and Border Protection / Homeland Security

3.8 Contractor shall insure that all work will be done in strict accordance with the manufacturer's instructions. Upon written request, copies of the manufacturer's instructions shall be submitted to County's Project Coordinator or designee within five (5) working days.

#### **4. Laws and Regulations**

4.1 Contractor shall abide by existing laws, codes, rules and regulations set forth by all appropriate authorities having jurisdiction in the location where work is to be performed.

4.2 Contractor shall comply with all CAL/OSHA requirements and must maintain current Material Safety Data Sheets while at JWA. A service report and refrigerant log shall be maintained at each Preconditioned Air Unit.

#### **5. Safety**

5.1 Contractor shall conduct mutually agreed upon walkthroughs to review the maintained equipment with the Airport Safety Officer. In the event that abnormalities or deficiencies are noted, Contractor shall correct them immediately at no cost to County.

5.2 Contractor shall adhere to JWA's safety and security standards by having all equipment, tools, and materials in the Technician's immediate possession at all times.

5.3 Contractor shall provide and place all necessary safety and traffic control equipment required to protect its employees, the public and surrounding areas.

5.4 Contractor shall be responsible, both financially and legally, for the removal and proper disposal of all hazardous waste generated by Contractor during the performance of work at JWA.

5.5 Contractor shall remove from JWA, and properly dispose of, all trash and debris generated from its operations prior to the end of each workday at Contractor's expense. JWA trash dumpsters shall not be used for this purpose.

5.6 Contractor shall use proper Tag-Out/Block-Out procedures and delineate whenever necessary.

#### **6. Warranty**

Contractor shall warrant all labor and materials used in the completion of work for a period of 90 days, or in accordance with manufacturer's warranty, if deemed to be longer. All warranties shall cover labor, parts, materials, and transportation for delivery or returned goods (if necessary). The warranty period shall start upon the acceptance of the labor and/or material by County's Project Coordinator or designee.

#### **7. Reference Library and Wiring Diagrams**

7.1 Contractor shall have and maintain, for the duration of the Contract, a reference library of information containing including but not limited to:

- National Electrical Code (NEC)
- California's Accessibility Standards
- Uniform Building Codes (UBC)
- Manufacturer's equipment maintenance schedules
- Original manufacturer's specifications and schedules
- Equipment schematics (motion and logic)
- Layouts
- Parts and assembly list
- Basic information needed to properly test, adjust and maintain the equipment covered by this Contract.

7.2 Contractor shall maintain JWA's complete set of schematics in good condition with any modifications. Drawings shall be consistently modified with "as-built" conditions and reflect any changes or modifications to circuits resulting from control modifications, part replacement or equipment upgrades made by Contractor during the term of this Contract. JWA shall keep a copy of these "as-built" drawings, and retain sole possession of the marked-up set of drawings

in event this Contract is terminated. If Contract is terminated, JWA will withhold final payment until the proper set of wiring diagrams and drawings are provided.

7.3 Contractor shall maintain an updated electronic copy of all PLC programming. A copy will be provided to County annually, or whenever modifications are made to the logic.

## **8. Inspections**

Contractor shall provide a technician to escort State, County or independent inspectors when requested to do so by County. Assistance to these entities shall be provided at no additional cost if required for any reason.

## **D. Parts and Materials**

### **1. Replacement Parts**

1.1 All materials used at JWA, by Contractor, shall be new, high grade, free from defects, and subject to the review and approval of County's Project Coordinator or designee.

1.2 Contractor shall be responsible for all of the parts used in performing work on JWA's equipment. All parts and materials shall be from the Original Equipment Manufacturer (OEM) and shall meet or exceed the manufacturer's original equipment specifications. Contractor shall receive prior approval from County's Project Coordinator or designee before using any parts other than OEM parts in stock at the start of this Contract.

1.3 If replacement parts are no longer available and no longer manufactured, Contractor shall be responsible for upgrading the replacement parts, under the provisions of Section V, "Additional Repairs and Work", upon approval by County's Project Coordinator or designee.

1.4 Parts, materials and hardware, listed in this Contract, requiring repair or replacement shall be paid to Contractor no greater than cost plus 10 percent.

1.5 Contractor shall receive prior approval from County's Project Coordinator or designee before purchasing any parts, materials or hardware not listed on the spare parts list.

### **2. Spare Parts**

2.1 Contractor is responsible for maintaining a recommended spare parts inventory as contained in Attachments F and G.

2.2 Spare parts are to be stored at the provided JWA locations and shall remain the property of County.

2.3 County's Project Coordinator or designee will periodically inspect the spare parts inventory for compliance to this section. Failure to stock the minimum number of parts on site or failure to stock specific parts on site as identified in the recommended spare parts inventory may result in payment deductions to Contractor.

2.4 Contractor on a monthly basis will identify in writing any incoming parts into inventory with a cost in excess of \$500.00 per piece. Contractor shall also provide on this same written monthly update, the location and installation date of any part with a cost in excess of \$500.00.

## **E. Additional Repairs and Work**

1. Contractor may be asked to submit supplemental proposals for repairs and work not called for under the fixed price portion of the Scope of Work, including, but not limited to upgrades, alterations, improvements, and any other work not stated elsewhere in this Scope of Work.

2. Contractor shall provide labor for all Additional Repairs and Work at the normal working hour rates under Attachment B, Section II.

3. County reserves the right to use alternative sources for completion of work, (other than basic maintenance) to obtain competitive proposals on any repairs, and to utilize the data provided under this Contract relative to necessary labor, materials and repairs.

4. If County authorizes work by an alternate source or authorizes Contractor to subcontract the work; Contractor may be relieved of responsibilities pertaining to the equipment affected by the project while work is being performed and during the subsequent warranty period. In such cases, the Contract may be adjusted accordingly. Contractor will be allowed a markup no greater than 10 percent of actual costs from the subcontractor for payment submission for all subcontractor labor,

materials, and equipment. Additional programming work, technical support, or on-site consultation and troubleshooting from the Baggage Handling System OEM or the Passenger Loading Bridge OEM shall be paid under the Parts, Subcontracting, and Technical Support portion of the Contract and be subject to a markup no greater than 10 percent of actual costs.

5. Contractor shall continue to provide services for all equipment covered under this Contract that is not affected by work provided by an alternate source.
6. Upon completion of any additional repairs and/or work, whether by Contractor or alternative source, County's Project Coordinator or designee and Contractor will inspect the finished product. Upon mutual acceptance of the work, Contractor shall again be responsible for all equipment originally covered under this Contract and the work performed under this section. If work was completed by an alternate source, Contractor's inspection time will be billed to County at the normal working hourly rate.

Because of the nature of equipment and the operational security related function, a thorough evaluation of the operation of the equipment for long functioning periods after work completion may be necessary before a determination can be made by County regarding the acceptance of the work. Because of this waiting period to grant work acceptance, payments for additional repairs and work may be paid in a different contract year or fiscal year from the year that work was completed.

#### **F. Emergency Repairs**

Contractor shall agree to respond immediately to all County requests for emergency repairs.

#### **G. JWA Staff and Airline Staff Training**

Contractor shall provide annual system training for the Passenger Loading Bridges, Preconditioned Air Units, the Rubbish Bins, and Baggage Handling System to resident Airline and JWA personnel. Training will be limited to 40 hours annually and is to be included as part of the fixed price total. Training shall be requested and coordinated through County's Project Coordinator or designee. Training shall take place during Contractor's annual PM cycle.

If additional training is requested above and beyond the 40 hours, County will obtain a quote from Contractor and be invoiced using the funds established for Additional Repairs and Work.

If additional training is determined to be necessary for new equipment more frequently than the annual training dates set, Contractor will provide that training at no additional cost to County.

#### **H. John Wayne Airport Quality Assurance**

##### **1. Consequences of Contractor's Failure to Perform Required Services:**

Contractor shall perform the Scope of Work requirements as described herein. County will apply one or more of the surveillance methods mentioned below and will deduct an amount from Contractor's invoice or otherwise withhold payment for unsatisfactory or non-performed work. County reserves the right to change surveillance methods at any time during the Contract without notice to Contractor.

##### **2. Surveillance Methods:**

County may apply surveillance methods to determine Contractor compliance. These include, but are not limited to, 100% inspection, random sampling without extrapolated deductions, and planned sampling as primary surveillance methods; and incidental inspections and validated customer complaints as supplemental surveillance methods. When using these surveillance methods, deductions will be taken for all observed defects.

##### **3. Procedures:**

In the case of unsatisfactory or non-performed work, County:

- 3.1 May give Contractor written notice of observed deficiencies prior to deducting for unsatisfactory or non-performed work and/or assessing liquidated damages. Such written notice shall not be a prerequisite for withholding payment for non-performed work. County may specify, as provided for below, that liquidated damages can be assessed against Contractor.

- Such liquidated damages are to compensate County for administrative costs and other expenses resulting from the unsatisfactory or non-performed work.
- 3.2 May, at its option, allow Contractor an opportunity to re-perform the unsatisfactory or non-performed work, at no additional cost to County. Corrective action must be completed within twenty-four (24) hours of notice. The original inspection results of Contractor's work will not be modified upon re-inspection. However, Contractor will be paid for satisfactorily re-performed work.
  - 3.3 Shall deduct from Contractor's invoice all amounts associated with the unsatisfactory or non-performed work at the prices set out in the Schedule of Deductions or provided by other provisions of this Contract, unless Contractor is required to re-perform and satisfactorily completes the work.
  - 3.4 May, at its option, perform the work by County personnel or by other means. County will reduce the amount of payment to Contractor, by the amount paid to any JWA personnel (based on wages, retirement and fringe benefits) plus material, or by the actual costs incurred to accomplish the work by other means. If the actual costs cannot be readily determined, the prices set out in the schedule will be used as the basis for the deduction.
- 4. Re-Performance:**  
Re-performance by Contractor does not waive County's right to terminate for nonperformance and all other remedies for default as may be provided by law.
- 5. Estimating the Price of Non-Performed or Unsatisfactory Work:**  
In accordance with the "Consequences of Contractor's Failure to Perform Required Services", deductions may be taken for non-performed or unsatisfactory work. In the event the price of non-performed or unsatisfactory work cannot be determined from the prices set out in the Schedule of Deductions, or on the basis of the actual cost to County, estimated methods may be used. Engineered Performance Standards (EPS) or other estimating sources may be utilized to estimate the cost of non-performed work or the costs that would be incurred in remedying unsatisfactory work. County may estimate the cost using wage rate and fringe benefits included in the wage determinations included in this Contract and County's estimates of Contractor's overhead and profit rates and County estimates of material costs, if applicable.
- 6. Schedule of Deductions:**  
If for any reason this Scope of Work is modified, including the exercise of an option, and the modification affects the Schedule of Deductions, Contractor shall submit a revised Schedule of Deductions within fifteen (15) days of the date of the modification. Costs shown in the Schedule of Deductions will be utilized in conjunction with the "Consequences of Contractor's Failure to Perform Required Services" clause in making deductions to the Contract price for non-performed or unsatisfactory work. Unbalancing in the Schedule of Deductions submitted shall be a cause for withholding approval and requiring re-submittal of a balanced schedule. (See Attachment D, Schedule of Deductions).

## **I. JWA Responsibility**

County will provide approximately 5,000 square feet of office/storage/shop spaces to Contractor. These spaces are located on the ramp level in Terminals A and C. These spaces will be verified at the job walk. Due to ongoing business requirements, the County reserves the right to withdraw either one (but not both) of these spaces from Contractor use. If that event occurs, the County will assist in providing on-Airport alternative parts and shop space. The County will provide water, electricity, and conditioned air. The awarded contractor will be responsible for internet and voice communications into their space. The Contractor will need to provide furniture for their space however shelving units in Terminal C are provided by JWA. The County does not provide any other furnishings.

County will provide two (2) commercial ramp vehicle parking spaces for Contractor's use. Other Contractor vehicles may be required to park at a remote location and also be submitted to a security search.

Contractor will be responsible for its employee parking fees.

County may at its option provide hand held 800 MHz radios. Contractor will abide by all rules and regulations for the use of the radios and be responsible for the loss or damage of each of the radio units issued to Contractor.

**J. Amendments – Changes/Extra Work**

The Contractor shall make no changes to this Contract without the County's written consent. In the event that there are new or unforeseen requirements, the County with the Contractor's concurrence has the discretion to request official changes at any time without changing the intent of this Contract.

If County-initiated changes or changes in laws or government regulations affect price, the Contractor's ability to deliver services, or the project schedule, the Contractor shall give the County written notice no later than seven calendar days from the date the law or regulation went into effect or the date the change was proposed by the County and the Contractor was notified of the change. Such changes shall be agreed to in writing and incorporated into a Contract amendment. Said amendment shall be issued by the County assigned Deputy Purchasing Agent, shall require the mutual consent of all parties, and may be subject to approval by the County Board of Supervisors. Nothing herein shall prohibit the Contractor from proceeding with the work as set forth in this Contract.

**K. Project Schedule**

The services performed under this contract shall be done in accordance with the approved project schedule incorporated herein which may be revised at the option of the County with the Contractor's concurrence. The Contractor shall be responsible for schedule adherence as outlined herein.

**L. Reports/Meetings**

The Contractor shall develop reports and any other relevant documents necessary to complete the services and requirements as set forth in this contract. The County's project manager and the Contractor's project manager will meet on reasonable notice to discuss the Contractor's performance and progress under this contract. If requested, the Contractor's project manager and other project personnel shall attend all meetings. The Contractor shall provide such information that is requested by the County for the purpose of monitoring progress under this contract.

**M. Royalties**

The County will not pay royalties as a result of work performed under this Contract. All written work resulting from this Contract shall be the property of the County of Orange, and any copyrights associated with that work shall belong to the County of Orange and shall be so designated on the written materials.

## Attachment B Contractor's Pricing

This is a fixed-fee contract between County and Contractor, for Passenger Loading Bridge and Baggage Handling System Maintenance as set forth in this Contract and Attachments.

### A. Compensation

The Contractor agrees to accept the specified compensation as set forth in this Contract as full payment for performing all services and furnishing all personnel and materials required, for any reasonably unforeseen difficulties which may arise or be encountered in the execution of the services until acceptance, for risks connected with the services, and for performance by the Contractor of all its duties and obligations hereunder.

**Contract not to exceed \$12,061,547.00**

### B. Fees and Charges

All rates shall include all costs for the work to include direct and indirect labor charges, (in accordance with prevailing wage rate requirements), all necessary equipment, tools overhead, travel, depreciation, other expenses and all profit related to the performance of work and services set forth in the Scope of Work. County will pay the following fees in accordance with the provisions of this Contract.

County shall pay the following fees in accordance with the provisions of this contract for Passenger Loading Bridge and Baggage Handling System Maintenance.

Description	Unit	Amount
Year 1 – Monthly Cost	Month	\$294,597.00
Year 2 – Monthly Cost	Month	\$297,543.00
Year 3 – Monthly Cost	Month	\$300,489.00
<u>Year 4 – Monthly Cost</u>	<u>Month</u>	<u>\$318,593.00</u>

### Additional Repairs and Work/Spare Parts

Description	Unit	Amount
Year 1 – Additional Repairs and Work	Year	\$450,000.00
Year 2 – Additional Repairs and Work	Year	\$450,000.00
Year 3 – Additional Repairs and Work	Year	\$450,000.00

- Cost of Analysis of Personnel:** The State of California through the Department of Industrial Relations has made a Prevailing Wage Determination this Contract for Passenger Loading Bridge Baggage and Baggage Handling System Maintenance. Their position classification for the service personnel actually performing work under this Contract. These wage rates are mandatory. See Attachment H for the full text of the determination provided by the State of California. A revised determination from the State is pending. In the event that the revised determination does not arrive before Contract execution, the rates below shall be utilized for compensation for the positions. An administrative Contract Amount adjustment shall be made for the hourly rates in the event that the determination returns with differing rates than those listed below

Classification	Straight Time Hourly Rate
Stationary Engineer	<del>\$74.17</del> \$75.96
Utility Engineer	<del>\$38.07</del> \$41.77



2. **Fixed Rate:** The fixed rate shall include all requirements and expenses related to the performance for work and services set forth in the Scope of Work.
3. **Additional Repairs and Work:** Additional Repairs and Work shall be provided in accordance with Attachment A, Section E at the prevailing rate specified above, Cost of Analysis of Personnel. Labor hours for required work shall be charged on the basis of actual time spent on each job, not on a portal-to-portal basis and shall be computed to the nearest one-quarter (1/4) hour.
  - a. In the event of additional work or required work outside of the normal work schedule, Contractor will be required to provide personnel to remedy any issues at the County's request. In the event of such requests, Contractor will pay wages as specified in the Prevailing Wage Determination (Attachment H).
  - b. **Subcontracting:** Contractor will be allowed a markup no greater than 10 percent of actual costs from the subcontractor for payment submission for all subcontractor labor, materials, and equipment.
  - c. **Parts Cost:** Contractor shall be responsible for maintaining parts inventory as provided in the Contract. Parts used from the inventory and purchased by Contractor from other manufacturers, will be charged to County no greater than cost plus 10 percent.

Contractor shall provide a copy of the invoice from the manufacturer or vendor documenting the purchase price for the parts. County will certify on the invoice that prices are per the current price list for all items having a per-unit cost exceeding \$250.00 and that the appropriate discounts have been applied.

4. **Deficient Performance:**

- a. **Performance:** County reserves the right to deduct from the payments due or to become due to the Contractor for deficient performance. The amount of such deductions will be based on the extent of the unsatisfactory work. A copy of the inspection record with associated deduction calculation will be furnished to the Contractor.
- b. **Attrition:** In order to maintain high levels of competent personnel and minimize security violation issues, Contractor agrees to maintain attrition levels of the workforce assigned to JWA, excluding supervision and management, to less than 10% per month.

In months where Contractor's airport workforce levels of attrition exceed 10%, the County shall deduct 5% from the payments due to Contractor that month.

**C. Final Payment**

Final payment shall be issued based on the completion of the work as described in this Contract and County Project Manager accepts the all work and JWA issued badges are returned to Badging Office.

**D. Payment Terms – Payment in Arrears**

Invoices are to be submitted in arrears to the user agency/department to the ship-to address, unless otherwise directed in this Contract. Contractor shall reference Contract number on invoice. Payment will be net 30 days after receipt of an invoice in a format acceptable to the County of Orange and verified and approved by the agency/department and subject to routine processing requirements. The responsibility for providing an acceptable invoice rests with the Contractor.

Billing shall cover services and/or goods not previously invoiced. The Contractor shall reimburse the County of Orange for any monies paid to the Contractor for goods or services not provided or when goods or services do not meet the Contract requirements.

Payments made by the County shall not preclude the right of the County from thereafter disputing any items or services involved or billed under this Contract and shall not be construed as acceptance of any part of the goods or services.

**E. Taxpayer ID Number**

The Contractor shall include its taxpayer ID number on all invoices submitted to the County for payment to ensure compliance with IRS requirements and to expedite payment processing.

**F. Payment-Invoicing Instructions**

The Contractor will provide an invoice on the Contractor's letterhead for goods delivered and/or services rendered. In the case of goods, the Contractor will leave an invoice with each delivery. Each invoice will have a number and will include the following information:

1. Contractor's name and address
2. Contractor's remittance address, if different from 1 above
3. Name of County Agency/Department
4. Delivery/service address
5. Master Agreement (MA) or Purchase Order (PO) number
6. Date of order
7. Product/service description, quantity, and prices
8. Sales tax, if applicable
9. Freight/delivery charges, if applicable
10. Total

Invoices and support documentation are to be forwarded to (**not both**):

John Wayne Airport  
Attention: Accounts Payable  
3160 Airway Avenue  
Costa Mesa, CA 92626

Or

Email to:

[AccountsPayable@ocair.com](mailto:AccountsPayable@ocair.com)

### Attachment C Staffing Plan

- I. **Key Personnel to Perform Contract Duties:** Contractor shall provide personnel in accordance with the Scope of Work as specified below.

The substitution or addition of other key individuals in any given category or classification shall be allowed only with prior written approval of County Project Coordinator or designee.

Contractor's service technicians and supervisors shall have a minimum of five (5) years verifiable experience maintaining Passenger Loading Bridges, Jet Aire Preconditioned Air Units, Ramp Waste Dumpsters, Baggage Carousels, Baggage Handling Conveyor Systems, and Baggage System Fire Doors or equivalent/comparable equipment from other manufactures.

Contractor may reserve the right to involve other personnel, as their services are required. The specific individuals will be assigned based on the need and timing of the service/class required. Assignment of additional key personnel shall be subject to County approval.

Name	Job Classification	Years Experience
Kenneth Rankin	Site Manager	30 Years
Jessica Patching	Office Administrator/Safety Coordinator	16 Years
Greg Pringle	Lead Stationary Engineer	28 Years
Miguel Ceja	Lead Stationary Engineer	20 Years
Franklin Recinos	Lead Stationary Engineer	10 Years
Hamid Einollahi	Stationary Engineer	21 Years
Gary Young	Stationary Engineer	25 Years
William Le	Stationary Engineer	27 Years
George Marrow	Stationary Engineer	18 Years
Jose Barrientos	Stationary Engineer	12 Years
Brandon Allison	Stationary Engineer	16 Years
Open	Stationary Engineer	5 Years (min)
Open	Stationary Engineer	5 Years (min)
Open	Stationary Engineer	5 Years (min)
Louis Filipek	Utility Engineer	12 Years
Kyle Tran	Utility Engineer	10 Years
Christopher Belizaire	Utility Engineer	10 Years
Ricardo Zuniga	Utility Engineer	18 Years

<b>Name</b>	<b>Job Classification</b>	<b>Years</b>
Clay Waver	Utility Engineer	4 Years
Ryan Simoneau	Utility Engineer	4 Years
Thanh Nguyen	Utility Engineer	3 Years
Eric Nelson	Utility Engineer	3 Years
Joshua Acosta	Utility Engineer	2 Years
Dan Hua	Utility Engineer	19 Years
Oscar Suchite	Utility Engineer	8 Years
Jose Pena	Utility Engineer	1 Year
Nathaniel Anderson	Utility Engineer	1 Year
Brian Cowles	Utility Engineer	7 Years
Manuel Lopez	Utility Engineer (Trash Collection)	18 Years
Francisco Castro	Utility Engineer (Trash Collection)	18 Years

- II. **Subcontractors:** Contractor shall also list below any subcontractors or sub-tier anticipated to perform any part of the work or services specified in the Scope of Work, Attachment A. Contractor shall describe the particular work by description of the overall scope of work to be performed by each subcontractor or sub-tier.

Contractor shall employ for Daifuku Material Handling Inc. and or Brock Solutions, on an as needed basis for telephone and onsite support to perform services specified in Attachment A.

<b>Subcontractor's Name</b>	<b>Project Function</b>	<b>Contact Name and Phone Number</b>
Daifuku Material Handling, Inc.	Telephone and Onsite Technical Support	Support Desk/877-529-3221
Brock Solutions	Telephone and Onsite Technical Support	Support Desk/519-571-1522

### III. **WORK SCHEDULE:**

Contractor shall provide staff on an hourly basis as specified below:

<b><u>Job Classification</u></b>	<b><u>Sun</u></b>	<b><u>Mon</u></b>	<b><u>Tue</u></b>	<b><u>Wed</u></b>	<b><u>Thu</u></b>	<b><u>Fri</u></b>	<b><u>Sat</u></b>
Site Manager		8:00am to 5:00pm	8:00am to 5:00pm	8:00am to 5:00pm	8:00am to 5:00pm	8:00am to 5:00pm	
Office Support		8:00am to 5:00pm	8:00am to 5:00pm	8:00am to 5:00pm	8:00am to 5:00pm	8:00am to 5:00pm	

<b>1<sup>st</sup> Shift</b>	<b>Sun</b>	<b>Mon</b>	<b>Tue</b>	<b>Wed</b>	<b>Thu</b>	<b>Fri</b>	<b>Sat</b>
Stationary Engineer Lead	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm		
Stationary Engineer			5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm
Stationary Engineer	5:00am to 1:30pm	5:00am to 1:30pm			5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm
Stationary Engineer	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm			5:00am to 1:30pm
Stationary Engineer (split shift)						5:00am to 1:30pm	
Utility Engineer	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm			5:00am to 1:30pm	5:00am to 1:30pm
Utility Engineer	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm		
Utility Engineer	5:00am to 1:30pm			5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm
Utility Engineer		5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	
Utility Engineer			5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm	5:00am to 1:30pm
Utility Engineer (split shift)	5:00am to 1:30pm	5:00am to 1:30pm					5:00am to 1:30pm
Utility Engineer (Trash Collection)	Part-Time						

<b>2<sup>nd</sup> Shift</b>	<b>Sun</b>	<b>Mon</b>	<b>Tue</b>	<b>Wed</b>	<b>Thu</b>	<b>Fri</b>	<b>Sat</b>
Stationary Engineer Lead		1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	
Stationary Engineer	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm			1:00pm to 9:30pm	1:00pm to 9:30pm
Stationary Engineer	1:00pm to 9:30pm			1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm

Stationary Engineer	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm		
Stationary Engineer (Split Shift)							1:00pm to 9:30pm
Utility Engineer	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm			1:00pm to 9:30pm	1:00pm to 9:30pm
Utility Engineer	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm		
Utility Engineer	1:00pm to 9:30pm			1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm
Utility Engineer		1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm	
Utility Engineer	1:00pm to 9:30pm	1:00pm to 9:30pm			1:00pm to 9:30pm	1:00pm to 9:30pm	1:00pm to 9:30pm

Utility Engineer (Split Shift)			1:00pm to 9:30pm	1:00pm to 9:30pm			
Utility Engineer (Split Shift)							1:00pm to 9:30pm
Utility Engineer (Trash Collection)	Part-Time						

<b>3rd Shift</b>	<b>Sun</b>	<b>Mon</b>	<b>Tue</b>	<b>Wed</b>	<b>Thu</b>	<b>Fri</b>	<b>Sat</b>
Stationary Engineer Lead		9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am	
Stationary Engineer	9:00pm to 5:30am			9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am
Stationary Engineer	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am			9:00pm to 5:30am
Stationary Engineer	9:00pm to 5:30am	9:00pm to 5:30am			9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am
Stationary Engineer			9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am

Stationary Engineer (Split Shift)	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am				
Utility Engineer	9:00pm to 5:30am	9:00pm to 5:30am			9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am
Utility Engineer			9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am
Utility Engineer (Split Shift)	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am	9:00pm to 5:30am			

**Attachment D**  
**Schedule of Deductions**

All preventive maintenance tasks "Preventive Maintenance Tasks," must be assigned a unit price and total price in the Schedule of Deductions. If a particular preventive maintenance task is not listed (e.g. Five (5) year Fire Door Inspection, Three (3) Year Rubbish Containers, etc.), they are not included as part of this schedule.

The total amount of the Schedule of Deductions shall equal to the "Annual Fixed Cost" in Attachment B, Contractor's Pricing.

***CONTRACTOR will provide Schedule of Deductions within 30 days of CONTRACT award.***

**SCHEDULE OF DEDUCTION FOR FIRST YEAR**

Unit	Price	Freq. /Year	Total
1. Jetbridge (1-20) - Daily PM(s)		365	
2. Jetbridge (1-20) - Monthly PM(s)		12	
3. Jetbridge (1-20) - Quarterly PM(s)		4	
4. Jetbridge (1-20) - Semi-Annual PM(s)		2	
5. Jetbridge (1-20) - Five Year PM(s)		1	
6. Preconditioned - Monthly PM(s) Air Units (1-20)		12	
7. Preconditioned - Quarterly PM(s) Air Units (1-20)		4	
8. Preconditioned - Semi-Annual PM(s) Air Units (1-20)		2	
9. POU 400Hz Units (1-20) - Annual PM		1	
10. Potable Water Filter - Quarterly PM(s) Change (1-)		4	
11. Rubbish Containers - Empty 3 times per Day		365	
12. Rubbish Containers - Monthly PM(s)		12	
13. Carousels (13 total) - Weekly PM(s)		52	
14. Carousels (13 total) - Monthly PM(s)		12	
15. Carousels (13 total) - Quarterly PM(s)		4	
16. Carousels (13 total) - Semi-Annual PM(s)		2	
17. Baggage Belt - Monthly PM(s) Conveyor System		12	
18. Baggage Belt - Quarterly PM(s) Conveyor System		4	
19. Baggage Belt - Semi-Annual PM(s) Conveyor System		2	
20. Baggage Belt - Annual PM(s) Conveyor System		1	
21. Fire Door Inspection - Weekly PM(s)		52	



Unit	Price	Freq. /Year	Total
22. Fire Door Inspection - Monthly PM(s)		12	
23. Fire Door Inspection - Quarterly PM(s)		4	
24. Air Handlers - Annual PM(s)		1	
25. Air Handlers - Semi-Annual PM (s)		2	
26. Air Handlers - Quarterly PM(s)		4	
27. Corrective/Emergency Repairs		1	
28. Training		40	
29. Control Room Staff		365	
<b>TOTAL</b>			

**Attachment E**  
**Terminal A & B Passenger Loading Bridge**  
**And Baggage Handling System Parts List**

Item	Description	MFG	Issue Unit	Current Balance	Qty Avbl
#19 SWIVEL	Potable Water Swivel Joint	J&B Aviation	EA	3.00	3.00
020046	2-Bolt Flange Assembly 1-7/16"	Transnorm	EA	20.00	20.00
020159	Trommelager Assembly, 1-7/16"	Transnorm	EA	20.00	20.00
020915	Upper Holder Assembly	Transnorm	EA	5.00	5.00
020916	Lower Holder Assembly	Transnorm	EA	10.00	10.00
0221125-30	BELT FSXFS BARE	Maverick	FT	80.00	80.00
0221125-30TC	30" BELT (BARE X TOP COVER)	Maverick	FT	120.00	120.00
0400451	CAM FOLLOWERS FOR CAROUSELS	Maverick	EA	20.00	20.00
0400560	BUSHINGS FOR CAROUSEL CARRIER ARMS	Maverick	EA	25.00	25.00
0405130	TAPERLOCK 1210-1 1/4	Maverick	EA	1.00	1.00
0405230	TAPERLOCK	Maverick	EA	2.00	2.00
0405320	TAPERLOCK 1615- 1 1/2	Maverick	EA	3.00	3.00
0405360	TAPERLOCK 2012- 1 1/4	Maverick	EA	2.00	2.00
0405390	TAPERLOCK 2012- 1 1/2	Maverick	EA	3.00	3.00
0500812-2	TS1500/140 Sngl Ext. IR31" N32" 1-7/16" Shaft	Transnorm	EA	4.00	4.00
0500814	TS1500/140 Tail Shaft, IR49" N38" 1-7/16"Shaft	Transnorm	EA	4.00	4.00
0500814-2	TS1500/140 Tail Shaft, IR31" N32" 1-7/16" Shaft	Transnorm	EA	5.00	5.00
053-71411-65	GROMMET FOR STRAIN RELIEF GPU	Grainger	EA	4.00	4.00
10250T3	CONTACT BLOCK	Grainger	EA	3.00	3.00
1041515A	POTABLE WATER QUICK CONN. (LONG)	J&B Aviation	EA	2.00	2.00
104C09UD22	Reversing Contactor, 9 Amp (1,2, and 3 HP Reversing)	Dodge	EA	2.00	2.00
108647	V-Belt, 40.2" Long, 39.3" Pitch Length, AX	Dodge	EA	2.00	2.00
108648	V-Belt, 44.2" Long, 43.3" Pitch Length, AX	Dodge	EA	8.00	8.00
108649	V-Belt, 45.2" Long, 44.3" Pitch Length, AX	Dodge	EA	9.00	9.00
108650	V-Belt, 48.2" Long, 47.3" Pitch Length, AX	Dodge	EA	2.00	2.00
108651	V-Belt, 50.2" Long, 49.3" Pitch Length, AX	Dodge	EA	1.00	1.00
108652	V-Belt, 53.2" Long, 52.3" Pitch Length, AX	Dodge	EA	1.00	1.00
108653	V-Belt, 55.2" Long, 54.3" Pitch Length, AX	Dodge	EA	1.00	1.00
108654	V-Belt, 56.2" Long, 56.2" Pitch Length, AX	Dodge	EA	7.00	7.00
108655	V-Belt, 57.2" Long, 56.3" Pitch Length, AX	Dodge	EA	2.00	2.00
108656	V-Belt, 56.0" Long, 57.3" Pitch Length, AX	Dodge	EA	1.00	1.00
108659	V-Belt, 66.2" Long, 65.3" Pitch Length, AX	Dodge	EA	1.00	1.00
108660	V-Belt, 68.2" Long, 67.3" Pitch Length, AX	Dodge	EA	1.00	1.00
108661	V-Belt, 70.2" Long, 69.3" Pitch Length, AX	Dodge	EA	1.00	1.00
108663	V-Belt, 73.2" Long, 72.3" Pitch Length, AX	Dodge	EA	1.00	1.00
117079	Bushing, 1210, 0.875	Dodge	EA	25.00	25.00
117080	Bushing, 2517, 0.9375	Dodge	EA	3.00	3.00

117082	Bushing, 1610, 0.875	Dodge	EA	31.00	31.00
117085	Bushing, Split Taper Lock, 1610, 1.375	Dodge	EA	1.00	1.00
117161	Bushing, 1610, 1.25	Dodge	EA	8.00	8.00
117162	DODGE 1620- 1 7/16 BUSHING	Dodge	EA	1.00	1.00
117164	Bushing, Split Taper Lock, 2012 Series, ID 1.0	Dodge	EA	8.00	8.00
117169	Bushing, Split Taper Lock, 2012 Series, ID 1.9375	Dodge	EA	8.00	8.00
118044	V-Belt, Sheave, 2 Groove, OD 7.75	Dodge	EA	1.00	1.00
118045	V-Belt, Sheave, 2 Groove, OD 8.95	Dodge	EA	7.00	7.00
118048	V-Belt, Sheave, 2 Groove, OD 12.75	Dodge	EA	4.00	4.00
118049	V-Belt, Sheave, 2 Groove, OD 15.75	Dodge	EA	2.00	2.00
118211	DODGE 1210 TAPER LOCK SHEAVE	Dodge	EA	14.00	14.00
118212	V-Belt, Sheave, 2 Groove, OD 3.95	Dodge	EA	2.00	2.00
118220	V-Belt, Sheave, 2 Groove, OD 5.55	Dodge	EA	3.00	3.00
118222	V-Belt, Sheave, 2 Groove, OD 5.95	Dodge	EA	1.00	1.00
118224	V-Belt, Sheave, 2 Groove, OD 6.35	Dodge	EA	1.00	1.00
118226	V-Belt, Sheave, 2 Groove, OD 6.75	Dodge	EA	1.00	1.00
118228	V-Belt, Sheave, 2 Groove, OD 7.15	Dodge	EA	2.00	2.00
118306	V-Belt, Sheave, 2 Groove, OD 4.15	Dodge	EA	3.00	3.00
118345	V-Belt, Sheave, 2 Groove, OD 8.35	Dodge	EA	1.00	1.00
119107	Bushing, 1210, 1.125	Dodge	EA	2.00	2.00
119110	Bushing, 2517, 1.125	Dodge	EA	3.00	3.00
119112	Bushing, 2517, 1.25	Dodge	EA	8.00	8.00
119115	Bushing, 2517, 1.4375	Dodge	EA	3.00	3.00
12	BULB TYPE 12 329010		EA	12.00	12.00
1204A14	FUSIBLE LINK (FIREDOR)	Bussman	EA	4.00	4.00
120PSB	120PSB CONTROL CONSOLE	Lumapro	EA	24.00	24.00
12PSB	CONTROL CONSOLE 12V	Lumapro	EA	24.00	24.00
13-NYLO-PIN	Pin, Nylon #13 Covered Cable	Clipper	EA	13.00	13.00
140M-C2E-B25	Manual Protector (1.6 - 2.5) 1 HP	Allen-Bradley	EA	2.00	2.00
140M-C2E-B40	Manual Protector (2.5 - 4.0) 2 HP	Allen-Bradley	EA	12.00	12.00
140M-C2E-B63	Manual Protector (-4.8 - 10 A) 3 HP	Allen-Bradley	EA	3.00	3.00
140M-C2E-C10	Manual Protector (6.3 - 10 A) 5 HP	Allen-Bradley	EA	2.00	2.00
143044	"O" RINGS FOR WATER FILTERS			11.00	11.00
1492-CB1G050	Circuit Breaker, 480 V, 5 Amp	Allen-Bradley	EA	3.00	3.00
1492-CB1G100	Circuit Breaker, 480 V, 10 Amp	Allen-Bradley	EA	1.00	1.00
1492-CB1G200	Circuit Breaker, 480 V, 20 Amp	Allen-Bradley	EA	1.00	1.00
1492CB1G030	Circuit Breaker, 480 V, 3 Amp	Allen-Bradley	EA	3.00	3.00
1494V-595-A	Disconnect Switch, Auxiliary Contact	Allen-Bradley	EA	1.00	1.00
1494V-DH633	Disconnect Switch, 30A, 600V	Allen-Bradley	EA	1.00	1.00
160-BA06NPS1P1	VFD, 3HP, w/Keypad Module	Allen-Bradley	EA	3.00	3.00
1600697	BLT RLR ADJ 1 1/4-7X5 1/2 ORIG	Siemens		6.00	6.00

1756-ENET	Module, Control Logix Ethernet	Allen-Bradley	EA	1.00	1.00
1756-IA16	Module, Input, 16 Pt. 120 V	Allen-Bradley	EA	8.00	8.00
1756-IB-16I	Module, DC Input, 16 Point	Allen-Bradley	EA	2.00	2.00
1756-L55M24	PLC, ControlLogix	Allen-Bradley	EA	1.00	1.00
1756-OA16	Module, Output, 16 Pt. 120 V	Allen-Bradley	EA	4.00	4.00
1756-OW16I	Module, Output, Relay Output	Allen-Bradley	EA	2.00	2.00
1756-PA75	ControlLogix Rack Power Supply	Allen-Bradley	EA	6.00	6.00
1757-SRC-1	Cable, Control Logix Hot BackUp Module	Allen-Bradley	EA	1.00	1.00
1757-SRM	Module, Hot BackUp, Control Logix	Allen-Bradley	EA	1.00	1.00
1761-L32AWA	Controllor, Micrologix 1000, Fixed I/O, 1 K Word Mem.	Allen-Bradley	EA	1.00	1.00
1786-BNC	Connector, ControlNet	Allen-Bradley	EA	2.00	2.00
1786-TPR	ControlNet, T-Tap w/Right Angle BNC Connector	Allen-Bradley	EA	7.00	7.00
1786-TPS	ControlNet, T-Tap w/Straight BNC Connector	Allen-Bradley	EA	1.00	1.00
1786-TPYR	ControlNet, Y-Tap w/Right Angle BNC Connector	Allen-Bradley	EA	9.00	9.00
1786-TPYS	ControlNet, Y-Tap w/Straight BNC Connector	Allen-Bradley	EA	1.00	1.00
17C7949	Diode, Ultra Fast Switching, 6 Amp	Newark	EA	1.00	1.00
1808-0511	3/8" BUSHING (FIREDOR)	SKS	EA	13.00	13.00
1818-0300	CLUTCH ASSY. (FIREDOR)		EA	2.00	2.00
1903-1212	DOWN LIMIT SWITCH (FIREDOR)		EA	3.00	3.00
194L-A20-1751	Switch, Load, IEC	Allen-Bradley	EA	1.00	1.00
194L-HE6N-175	Switch, Load, IEC, On/Off Selector Red/Yellow	Allen-Bradley	EA	1.00	1.00
1A027	NUMBER SIGN BALLAST	Grainger	EA	1.00	1.00
1N4003	Diode	Newark		1.00	1.00
2106502	TROLLEY ASSEMBLY STANDARD	Jetway	EA	1.00	1.00
2127249	EXTERNAL TRACK CABLE CARRIER	Jetway	EA	48.00	48.00
2590108	SOFT START			2.00	2.00
25T8DC	START UP WARNING BULBS (BELTS)	GE	EA	6.00	6.00
2910041	CKT BOARD	Jetway	EA	1.00	1.00
3006993	CURT CLOS PAD TOP FRES GRAY S	Jetway	EA	5.00	5.00
36602L	FRAME PLATE	Siemens	EA	2.00	2.00
38206-31	RETURN ROLLER	Siemens	EA	1.00	1.00
38206-33	RETURN ROLLER	Siemens	EA	6.00	6.00
38206-36	RETURN ROLLER	Siemens	EA	1.00	1.00
38206-39	RETURN ROLLER	Siemens	EA	1.00	1.00
38206-43	RETURN ROLLER	Siemens	EA	3.00	3.00
4000635	GEARBOX INLINE 19.7:1 RATIO	Dodge	EA	1.00	1.00
4000650	GEAR BOX 24.9 :1 RATIO	Dodge	EA	1.00	1.00
4000685	GEARBOX 19.4:1 RATIO	Dodge	EA	1.00	1.00
4000886	GEARBOX 13:1 RATIO SUMITOMO	Sumitomo	EA	1.00	1.00
4001211	FALK GEARBOX (TRANSNORM)	Transnorm	EA	8.00	8.00
4004211	GEARBOX INLINE 21:1	Dodge	EA	1.00	1.00

400W	JB SIGN LIGHT	GE	EA	3.00	3.00
4141041	RLY 3PDT 120V 10AMP	Jetway	EA	9.00	9.00
4141638	CNTOR RVSG 3 POLE	Jetway	EA	3.00	3.00
4141843	BTN BLU TRAVEL WRN BELL (PUSH)	Jetway	EA	2.00	2.00
4X512	100 PSI PRESSURE GAUGE	Grainger	EA	1.00	1.00
500204	VALVE EXPANSION	Jetway	EA	8.00	8.00
503742	TEMP. PROBE (HVAC)	Jetway	EA	4.00	4.00
5600701	MTR 1 HP, FMT, 1750, TEFC, 143T (3546T)	Baldor	EA	2.00	2.00
600053	RETURN ROLLER Portex #600053, 3-sections to roller		EA	1.00	1.00
800T-P16A	Pilot Light, Amber, 120 V	Allen-Bradley	EA	2.00	2.00
800T-P16B	Pilot Light, Blue, 120 V	Allen-Bradley	EA	2.00	2.00
800T-P16G	Pilot Light, Green, 120 V	Allen-Bradley	EA	3.00	3.00
800T-P16R	Pilot Light, Red, 120 V	Allen-Bradley	EA	1.00	1.00
AP9610	Module, Relay I/O, PLC	APC	EA	1.00	1.00
BELT.10159	BELT.CONVEYANCE BELT.CURVE BELT 90 DEGREE.TRANSNORM 90 DEGREE.B4938N9690FC/140	Transnorm	EA	1.00	1.00
BELT.10176	BELT.CONVEYANCE BELT.BELT WG X BR.BLACK 865 DIAMOND TOP.0210865-30		FT	101.00	101.00
BELT.10177	BELT.CONVEYANCE BELT.BELT 1/32 X BR X BR.BLACK 2 PLY T/C BELT.0217150-24		FT	124.00	124.00
BELT.10178	BELT.CONVEYANCE BELT.BELT FS X FS.BARE.0221125-30		FT	98.00	98.00
BELT.10179	BELT.CONVEYANCE BELT.30" BELT.BARE X TOP COVER.0221125-30TC		FT	120.00	120.00
BELT.10180	BELT.CONVEYANCE BELT.30" ROUGH TOP		FT	15.00	15.00
BELT.10181	BELT.105 TEETH 0.03M WIDTH,0.840 LONG 0.008 PITCH.840-8MGT-30		EA	2.00	2.00
BELT.10182	BELT.COG GT2 275 TEETH 0.03 WIDTH, 2.200 LONG.0.008 PITCH.8MGT-2200-30		EA	1.00	1.00
BELT.10183	BELT.TRANSNORM BELT.TS1500/100 BELT FLAT 90 DEGREE IR 33".N26.B332694FC/100	Transnorm	EA	5.00	5.00
BELT.10184	BELT.CURVE BELT.90 DEGREE HELIX IR 31" WITH 15.50.N32".B4968N96210H/15.50		EA	3.00	3.00
BELT.10185	BELT.CURVE BELT.45 DEGREE HELIX IR 49" WITH 12" HD.N38".B4938N9645H/12		EA	2.00	2.00
BELT.10186	BELT.CURVE BELT.90 DEGREE HELIX IR 49" WITH 24" HD.N38".B4938N9690H/24		EA	2.00	2.00
BELT.10187	BELT.CURVE BELT.90 DEGREE HELIX IR 49" WITH 7.25" HD.N38".B4938N9690H/7.25		EA	3.00	3.00
BELT.10188	BELT.PORTEC(HABASIT)CURVE BELT.C4838 SP-45.12 INCH INCLINE/DECLINE	Habasit	EA	5.00	5.00
BELT.10189	BELT.CURVE BELT.90 DEGREE.IR 55"KT36 FLAT.N32".B5532 90F		EA	9.00	9.00
BELT.10190	BELT.TRANSNORM BELT.90 DEGREE WITH 12" RISE.B5532 90H 12		EA	1.00	1.00
BELT.10192	BELT.CONVEYANCE BELT.36" WIDE 284" LONG.E5/2 0/V5NP		FT	348.00	348.00

BELT.10194	BELT.CONVEYANCE 45 DEG 12" HELIX TRANSNORM B4938N9645HC/12/140	Transnorm	EA	1.00	1.00
BELT.10196	BELT.CONVEYANCE BELT.38 1/4 " X 193' 5/8" LONG.P5376193039	Siebling	EA	1.00	1.00
BELT.10197	BELT.CONVEYANCE BELT.PVC BELT.125.0 LB IN STRENGTH.1 PLY.36" WIDE.P8111402360V4	Siebling	FT	200.00	770.00
BELT.10198	BELT.CONVEYANCE BELT.PVC BELT.120.0 LB IN STRENGTH.1 PLY.36" WIDE.P8111602360V4	Siebling	FT	200.00	2880.00
BELT.10199	BELT.CONVEYANCE BELT.MONFIL BELT.120.0 LB IN STRENGTH. 1 PLY 36" WIDE.P811320236	Siebling	FT	163.00	163.00
BM3635T	Motor, AC, FtMnt, w/Brake, 5.0HP, 1800 RPM	Baldor	EA	1.00	1.00
BRG.10030	Bearing F2B-SXR-107-ABHS 1 7/16	Dodge		6.00	6.00
BRG.10097	FLANGE BRG. SXR-2 BOLT. SIZE 1 15/16 BRG.BEARING.2 BOLT FLANGE BEARING.1 7/16".DODGE.128766	Dodge		10.00	10.00
BRG.10127	BRG.BEARING.3 BOLT BEARING WITH FLANGE.1 7/16".0505-0349-0010	Dodge	EA	20.00	20.00
BRG.10221	BRG.BEARING.SXR BEARING. 1 3/16"	Dodge	EA	34.00	34.00
BRG.10251	BRG.BEARING.SXR BEARING. 1 7/16"	Dodge	EA	13.00	13.00
BRG.10252	BRG.BEARING.2 BOLT BEARING. 1 11/16"	Dodge	EA	17.00	17.00
BRG.10253	BRG.BEARING.PILLOW BLOCK BEARING.MP 31.1 15/16"	Dodge	EA	3.00	3.00
BRG.10254	BRG.BEARING.2 BOLT FLANGE BEARING.1 11/16"	Dodge	EA	4.00	4.00
BRG.10255	BRG.BEARING.TAKE UP BEARING.1 7/16"	Dodge	EA	10.00	10.00
BRG.10256	BRG.BEARING.FLANGE BEARING.2-7/16" 2 BOLT WITH GREASE FITTING	Dodge	EA	23.00	23.00
BRG.10257	BRG.BEARING.GUIDE ROLLER BEARING.TRANSNORM.60042ZJEM	Dodge	EA	1.00	1.00
BRG.10258	BRG.SPHERE BEARING.ROD END 0.750 BORE DIA RIGHT HAND.CFM-12T	Transnorm	EA	200.00	690.00
BRG.10259	BRG.CM BEARING.YOKE 1.0 DIA 5/8" ROLLER WIDTH.CYR-1-5	Dodge	EA	4.00	4.00
BRG.10261	BRG.BEARING.SUPPORT.TRANSNORM BEARING SUPPRT OUTSIDE LEFT.E0080L	Dodge	EA	2.00	2.00
BRG.10262	BRG.BEARING.SUPPORT.TRANSNORM BEARING SUPPRT OUTSIDE RIGHT.E0080R	Transnorm	EA	2.00	2.00
BRG.10263	BRG.BEARING.SUPPORT.TRANSNORM BEARING SUPPRT INSIDE RIGHT.E3326R	Transnorm	EA	1.00	1.00
BRG.10264	BRG.BEARING.SUPPORT.TRANSNORM BEARING SUPPRT INSIDE LEFT.E5532L	Transnorm	EA	4.00	4.00
BRG.10265	BRG.BEARING AND PAWL ASSEMBLY FOR FIRE DOOR. BRG.BEARING.TIMKEN.TAPER ROLLER BEARING.JLM104948	Transnorm		7.00	7.00
BRG.10267	BRG.BEARING.2 BOLT FLANGE BEARING.1".LFT-16 BRG.BEARING.TRANSNORM INSIDE RADIUS BEARING.RA103RRB-AG	Timkin	EA	7.00	7.00
BRG.10268	BRG.BEARING.TRANSNORM OUTSIDE RADIUS BEARING.RAL103NPPB	Sealmaster	EA	2.00	2.00
BRG.10269	BRG.BEARING.2 BOLT BEARING.2-7/16" ID.SELF ALIGN.TAPERED ROLLER.RPB-207-2	Transnorm	EA	35.00	35.00
BRG.10270	BRG.BEARING.PILLOW BLOCK BEARING WITH 90 DEGREE ZERK.SP-23C5K	Transnorm	EA	10.00	10.00
BRG.10271		Sealmaster	EA	1.00	1.00
BRG.10272		Sealmaster	EA	7.00	7.00
BRG.10273					

BRG.10832	BRG,Sphere, Rod End 0.750", Bore dia. Left Hnd		EA	4.00	4.00
BSHG.10010	Taper Lock Bush 2517 x 1 11/16	Dodge	EA	19.00	19.00
BSHG.10011	Taper Lock Bush 2517 x 1 7/16, 119115	Dodge	EA	7.00	7.00
BSHG.10012	Taper Lock Bush 2517 x 1 1/8, 119110	Dodge	EA	3.00	3.00
BSHG.10014	Taper Lock Bush 2012 x 1 7/16 DODGE# 119256	Dodge	EA	7.00	7.00
BSHG.10020	Taper Lock Bush 1610 x1 1/4	Dodge	EA	2.00	2.00
BSHG.10021	Bushing. Taperlock Bushing 1610 x 1 1/8	Dodge	EA	4.00	4.00
BSHG.10025	Taper Lock Bush 1610 x 3/4 DODGE 119215	Dodge	EA	2.00	2.00
BSHG.10026	Taper Lock Bush 1210 x 1 1/8, Dodge 117080	Dodge	EA	8.00	8.00
BSHG.10027	Tapered Bushing TDT1 x 1 7/16, 241292	Dodge	EA	4.00	4.00
BSHG.10028	Tapered Bushing TDT2 x 1 11/16, 242164	Dodge	EA	4.00	4.00
BSHG.10029	Tapered Bushing TDT2 x 1 15/16	Dodge	EA	1.00	1.00
BSHG.10030	BUSH.BUSHING.TAPERED.TDT3 x 1 15/16	Dodge	EA	2.00	2.00
BSHG.10033	Taper Lock Bush 1210 x 7/8 DODGE 117079	Dodge	EA	1.00	1.00
BSHG.10035	QD Bushing SF x 1 7/16 DODGE 120463	Dodge	EA	4.00	4.00
BSHG.10036	QD Bushing SDS x 1 7/16, DODGE 120403	Dodge	EA	6.00	6.00
BSHG.10037	Taper Lock Bush 1610 x 1 3/8.DODGE 117085	Dodge	EA	1.00	1.00
BSHG.10040	Taper Lock Bush 2517 x 1 15/16	Dodge	EA	1.00	1.00
BSHG.10042	Taper Lock Bush 2012 x 1 11/16, 117093	Dodge	EA	3.00	3.00
BSHG.10044	Taper Lock Bush 1610 x 1 1/2	Dodge	EA	3.00	3.00
BSHG.10046	Taper Lock Bush 1610 x 5/8	Dodge	EA	4.00	4.00
BSHG.10048	Taper Lock Bush 1210 x 3/4	Dodge	EA	8.00	8.00
BSHG.10049	Taper Lock Bush 1108 x 7/8, 117076	Dodge	EA	4.00	4.00
BSHG.10056	Taper Lock Bush 1610 x 1 7/16 DODGE 119226	Dodge	EA	5.00	5.00
BSHG.10072	Tapered Bushing TDT4 x 1 15/16	Dodge	EA	1.00	1.00
BSHG.10076	duplicate, delete 10/25/10 jb	Dodge	EA	31.00	31.00
BSHG.10093	BSHG.BUSHING.TAPERLOCK.TDT3 X 1 11/16. 243268	Dodge	EA	1.00	1.00
BSHG.10097	BSHG.BUSHING DODGE.117168, 2012 X 1 1/2	Dodge	EA	3.00	3.00
BSHG.10098	BSHG.BUSHING DODGE.119115	Dodge	EA	3.00	3.00
BSHG.10103	BSHG.BUSHING DODGE.117080, 1210 X 1 1/8	Dodge	EA	3.00	3.00
BSHG.10106	BSHG.BUSHING.TAPERED BUSHING.TDT2 X 1 7/16"	Dodge	EA	3.00	3.00
BSHG.10125	BSHG.TAPER LOCK BUSHING.2012 X 1 1/4.DODGE 117166	Dodge	EA	2.00	2.00
BSHG.10137	BSHG.QD BUSHING.SF.1 11/16"	Dodge	EA	7.00	7.00
BSHG.10146	BSHG.TAPERLOCK BUSHING.SPLIT TAPERLOCK.2012 X 1	Dodge	EA	8.00	8.00
BSHG.10148	BSHG.BUSHING.DODGE BUSHING.1 7/16".BUSHING ASSEMBLY.241292	Dodge	EA	8.00	8.00
BSHG.10149	BSHG.BUSHING.DODGE BUSHING.1 1/4.DODGE 119112	Dodge	EA	8.00	8.00
BSHG.10150	BSHG.BUSHING.CAROUSEL CARRIER ARMS BUSHING.0400560	Dodge	EA	19.00	19.00
BSHG.10151	BSHG.BUSHING.TAPERLOCK BUSHING.1210 X 1 1/4"	Dodge	EA	1.00	1.00
BSHG.10152	BSHG.BUSHING.TAPERLOCK BUSHING.1210 X 7/8".DODGE 117079	Dodge	EA	25.00	25.00
BSHG.10153	BSHG.BUSHING.TAPERLOCK BUSHING.1610 X 1 1/4".DODGE 117161	Dodge	EA	8.00	8.00

BSHG.10154	BSHG.BUSHING.TAPERLOCK BUSHING.1620 X 1 7/16".DODGE 117162	Dodge	EA	1.00	1.00
BSHG.10155	BSHG.BUSHING.TAPERLOCK BUSHING.SPLT TAPERLOCK BUSHING.2012 SERIES 1 15/16" ID	Dodge	EA	8.00	8.00
BSHG.10157	BSHG.BUSHING.TDT3 X 1 7/16".243260	Dodge	EA	6.00	6.00
BSHG.10158	BSHG.BUSHING.TDT4 X 1 11/16".244085	Dodge	EA	1.00	1.00
BSHG.10161	BSHG.BUSHING.LOCK BUSHING 2.4376" DIAMETER SHAFT.3.740 HUB OD.7012-IN X	Dodge	EA	1.00	1.00
BSHG.10162	BUSH.SLEEVE BUSHING.BRONZE.0.751,0.878 OD 1" LONG.AA-838-7	SKS	EA	1.00	1.00
BSHG.10163	BUSH.BUSHING.OIL FILLED BUSHING 0.75 ID,1.0 OD,3/4" LONG.P77-6	Grainger	EA	8.00	8.00
BSHG.10164	BUSH.BUSHING.SPANNER BUSHING FOR DUMPSTER.SS524	Grainger	EA	5.00	5.00
CL065A-M	Converter, Passive, CL/RS232		EA	2.00	2.00
CLBK.10006	Warner Clutch Brake UM210-1020 (5371-273-003). Replaces Dodge 028780	Warner	EA	4.00	4.00
CM3558T	Motor, AC, C-Face, FtMnt, 2.0HP, 1750 RPM, 3-Phase	Baldor	EA	7.00	7.00
CNHJ-6100Y-21/143TC	Reducer, 21:1 Ratio, SM-Cyclo	Cyclo	EA	1.00	1.00
CNVYRS.10029	CNVYRS.CAMFOLLOWER.MCGILL.CF2SB, MAXI CLAIM,r/w/sl = 2 x 1.25 x 2	McGill	EA	49.00	49.00
CNVYRS.10062	CNVYRS.LINK.CHAIN LINK.#60	Grainger	EA	44.00	44.00
CNVYRS.10084	CNVYRS.MODULE.REDUNDANCY MODULE.1757SRM	Allen-Bradley	EA	1.00	1.00
CNVYRS.10088	CNVYRS.ASSEMBLY.WHEEL ASSEMBLY.507-2240002		EA	608.00	608.00
CNVYRS.10099	CNVYRS.ALARM.60 TO 250. vac/dc 55/65 Dcbl.MALLORY SONALERT	Mallory	EA	7.00	7.00
CNVYRS.10165	CNVYRS.MODULE.INPUT MODULE.120 VAC.SERIES A.1756-1A16	Allen-Bradley	EA	8.00	8.00
CNVYRS.10180	CNVYRS.ASSEMBLY.HOLDER ASSEMBLY.UPPER.TRANSNORM.020915	Transnorm	EA	5.00	5.00
CNVYRS.10181	CNVYRS.ASSEMBLY.HOLDER ASSEMBLY.LOWER.TRANSNORM.020916	Transnorm	EA	10.00	10.00
CNVYRS.10195	CNVYRS.WHEEL.BED CONVEYOR SPACER SHORT WHEEL.5/8" ID X 1" OD X 0.1		EA	1.00	1.00
CNVYRS.10279	CNVYRS.ASSEMBLY.MOUNTING ASSEMBLY FOR SERIES 5000.60-1748		EA	2.00	2.00
CNVYRS.10352	CNVYRS.REFLECTOR.ROUND REFLECTOR.CLEAR.3".GRAINGER 5B317	Grainger	EA	8.00	8.00
CNVYRS.10454	CNVYRS.ASSEMBLY.TROMMELAGER ASSEMBLY SIZE 1 7/16"	Transnorm	EA	20.00	20.00
CNVYRS.10455	CNVYRS.CHAIN.RC CHAIN.RC-40	Dayton	EA	3.00	3.00
CNVYRS.10456	CNVYRS.CHAIN LINK.RC CHAIN.RC-40 CONNECTION LINK	Dayton	EA	5.00	5.00
CNVYRS.10457	CNVYRS.CHAIN LINK.RC CHAIN.RC-40 OFFSET LINK	Dayton	EA	2.00	2.00
CNVYRS.10458	CNVYRS.CHAIN LINK.RC CHAIN.RC-41	Dayton	EA	2.00	2.00
CNVYRS.10459	CNVYRS.CHAIN LINK.RC CHAIN.RC-41.OFFSET LINK	Dayton	EA	2.00	2.00
CNVYRS.10460	CNVYRS.CHAIN.RC CHAIN.RC 50	Dayton	EA	18.00	18.00
CNVYRS.10461	CNVYRS.CHAIN.CHAIN LINK.RC CONNECTION LINK.RC-50	Dayton	EA	5.00	5.00
CNVYRS.10462	CNVYRS.CHAIN.RC CHAIN.RC 60	Dayton	EA	6.00	6.00
CNVYRS.10463	CNVYRS.CHAIN.RC CHAIN.RC 80	Dayton	EA	1.00	1.00
CNVYRS.10464	CNVYRS.CHAIN.CHAIN LINK.RC CONNECTION LINK.RC-80	Dayton	EA	8.00	8.00
CNVYRS.10465	CNVYRS.CHAIN.CHAIN LINK.RC OFFSET LINK.RC-80	Dayton	EA	46.00	46.00



CNVYRS.10466	CNVYRS.CHAIN.DOUBLE CHAIN.RC CHAIN.RC 80	Dayton	EA	15.00	15.00
CNVYRS.10467	CNVYRS.CHAIN.DOUBLE CHAIN.RC CHAIN.CONNECTION LINK.RC 80-2	Dayton	EA	3.00	3.00
CNVYRS.10468	CNVYRS.CHAIN.DOUBLE CHAIN.RC CHAIN.OFFSET LINK.RC 80-2	Dayton	EA	4.00	4.00
CNVYRS.10469	CNVYRS.ASSEMBLY.CLUTCH ASSEMBLY FOR FIREDOR.1818-0300		EA	2.00	2.00
CNVYRS.10470	CNVYRS.PANELVIEW 1400	Allen-Bradley	EA	1.00	1.00
CNVYRS.10471	CNVYRS.BELL.ALARM BELL FOR MCP PANEL		EA	2.00	2.00
CNVYRS.10475	CNVYRS.SHAFT.1 11/16 X 33.42430-33		EA	1.00	1.00
CNVYRS.10476	CNVYRS.SHAFT.DRIVE SHAFT.1 11/16 X 45.42441-45		EA	2.00	2.00
CNVYRS.10477	CNVYRS.SHAFT WITH KEYWAY 1 3/16".42445		EA	1.00	1.00
CNVYRS.10478	CNVYRS.SHAFT.DRIVE SHAFT.1 7/16 X 33.42446-33		EA	4.00	4.00
CNVYRS.10479	CNVYRS.MOD 4000 PHOTO EYE.42RLU	Allen-Bradley	EA	1.00	1.00
CNVYRS.10481	CNVYRS.SHAFT.33 X 1 7/16.60800-33		EA	2.00	2.00
CNVYRS.10482	CNVYRS.GUARD.CAROUSEL FINGERGUARD.67282	Stearns	EA	4.00	4.00
CNVYRS.10483	CNVYRS.PALLET.MAXI II PALLET 12 GAUGE STAINLESS STEEL.67272	Stearns	EA	4.00	4.00
CNVYRS.10484	CNVYRS.BUMPER.RUBBER BUMPER.3 1/8 X 7 7/16 X 1' 11 1/2 LONG.67283-2	Stearns	EA	15.00	15.00
CNVYRS.10485	CNVYRS.INSERT.BUMPER INSERT.67284	Stearns	EA	30.00	30.00
CNVYRS.10486	CNVYRS.WHEEL.MAXI II PALLET SUPPORT WHEEL.4 1/4.67401	Stearns	EA	29.00	29.00
CNVYRS.10487	CNVYRS.CHAIN.MAXI II DRIVE CHAIN.67402	Stearns	EA	2.00	2.00
CNVYRS.10488	CNVYRS.ASSEMBLY.CAROUSEL PALLET ASSEMBLY.67404	Stearns	EA	5.00	5.00
CNVYRS.10489	CNVYRS.PLATE.CAROUSEL DRIVE PLATE.67521	Stearns	EA	1.00	1.00
CNVYRS.10490	CNVYRS.SHAFT.MAXI II TAIL SHAFT 11 5/8.67522	Stearns	EA	1.00	1.00
CNVYRS.10491	CNVYRS.SHAFT.MAXI II DRIVE SHAFT.1' 4 1/4".67523	Stearns	EA	1.00	1.00
CNVYRS.10492	CNVYRS.SUPPORT CAROUSEL WEAR BAR SUPPORT.67560	Stearns	EA	1.00	1.00
CNVYRS.10493	CNVYRS.HOLDER.CAROUSEL WEAR BAR HOLDER.67561	Stearns	EA	1.00	1.00
CNVYRS.10494	CNVYRS.MOUNT.ROLLER MOUNT.TRANSNORM UPPER GUIDE ROLLER MOUNT.G815141	Transnorm	EA	6.00	6.00
CNVYRS.10495	CNVYRS.MOUNT.ROLLER MOUNT.TRANSNORM LOWER GUIDE ROLLER MOUNT.G815142	Transnorm	EA	9.00	9.00
CNVYRS.10496	CNVYRS.ASSEMBLY.TAKE UP HOUSING ASSEMBLY 1 7/16" IN/OUT RIGHT/LEFT.K414Z46014	Transnorm	EA	1.00	1.00
CNVYRS.10497	CNVYRS.CHAIN.ROLLER CHAIN.1 STRANDED RIVETED.RC-60.P130397	Dayton	EA	1.00	1.00
CNVYRS.10498	CNVYRS.SHAFT.IDLER SHAFT.40 3/8 LONG 0.666/0 DIA 12L14 CRS.P174888	Transnorm	EA	1.00	1.00
CNVYRS.10499	CNVYRS.ROLLER.DRIVE ROLLER.TRANSNORM.33- 36.P3326	Transnorm	EA	1.00	1.00
CNVYRS.10500	CNVYRS.ROLLER.TAIL ROLLER.TRANSNORM.33- 26.P3326T	Transnorm	EA	1.00	1.00
CNVYRS.10502	CNVYRS.ROLLER.TRANSNORM DRIVE ROLLER.55- 32.P5532	Transnorm	EA	18.00	18.00
CNVYRS.10503	CNVYRS.ROLLER.TRANSNORM TAIL ROLLER.55- 32.P5532T	Transnorm	EA	15.00	15.00
CNVYRS.10504	CNVYRS.ROLLER.RETURN ROLLER.3'3".3 1/2" DIAMETER.3' 1/4" LONG.P5750002039		EA	10.00	10.00

CNVYRS.10505	CNVYRS.CAM WHEEL.BED CONVEYOR CAM WHEEL FLOOR MOUNT W/ CM ROTATION.P5770120001		EA	1.00	1.00
CNVYRS.10506	CNVYRS.CAM WHEEL.BED CONVEYOR CAM WHEEL FLOOR MOUNT W/ CCM ROTATION.P5770120002		EA	1.00	1.00
CONT.10002	1757-SRC-1 PLC-CONTROL LOGIX HOT BACKUP	Allen-Bradley	EA	1.00	1.00
CONT.10005	1756-IB16I PLC-CONTROL LOGIX SINK/	Allen-Bradley	EA	2.00	2.00
CONT.10006	1756-OA16 PLC-CONTROL LOGIX 16 PT	Allen-Bradley	EA	4.00	4.00
CONT.10033	CONT.CONTROL PARTS.SERVO CONTROLLER 7.4 KW 10 HP 460 VOLT 11 AMP.SD-23H4A11-E	Baldor	EA	1.00	1.00
CONT.10034	CONT.CONTROL PARTS.SERVO CONTROLLER.SD23H4AH30-ER	Baldor	EA	1.00	1.00
CONT.10035	CONT.CONTROL PARTS.SERVO POSITIONING CARD SMART MOVE.SMM011-501	Baldor	EA	1.00	1.00
CONT.10036	CONT.CONTROL PARTS.SMART UOS 750 VAC 120 VOLT.SUA750XL	Baldor	EA	1.00	1.00
COVER PLATE BLANK	COVER PLATE BLANK	Grainger	EA	6.00	6.00
COVER PLATE OUTLET	COVER PLATE OUTLET	Grainger	EA	9.00	9.00
ELEC.10004	PLC-MOTOR CONTROLLER VFD, 3HP, 160- BA06NPS1P1		EA	3.00	3.00
ELEC.10020	BNC PLUG RG-SQS, 1786-BNC/B		EA	2.00	2.00
ELEC.10043	800T-H2A SELECTOR SWITCH	Allen-Bradley	EA	1.00	1.00
ELEC.10110	Resistor 300ohm, 50w	Jetway	EA	13.00	13.00
ELEC.10112	Clutch-Brake Control MCS-103-1. 0-90VDC	Warner	EA	5.00	5.00
ELEC.10116	1786-TPYR CABLE-DROP FOR CONTROLNET	Allen-Bradley	EA	9.00	9.00
ELEC.10117	1786-TPYS CABLE-CONTROLNET COAX Y-TAP	Allen-Bradley	EA	2.00	2.00
ELEC.10185	ELEC.BUTTON.PUSH BUTTON.ALLEN BRADLEY.800T- FXP16A1	Allen-Bradley	EA	2.00	2.00
ELEC.10252	ELEC.LAMP.COOL WHITE.F20T12/CW	GE	EA	18.00	18.00
ELEC.10331	ELEC.LAMP.PHILLIPS.COOL WHITE.F13T5	Phillips	EA	2.00	2.00
ELEC.10359	ELEC.LAMP.MINI LAMP.120 VOLT.120 PSB.2EKV2	GE	EA	12.00	12.00
ELEC.10553	ELEC.HOLDER.LAMP HOLDER.MEDIUM BI PIN.660 WATT.5C402	Levetion	EA	4.00	4.00
ELEC.10657	ELEC.FUSE.DUAL ELEMENT TIME DELAY.125 AMP FUSE.TRS125R		EA	1.00	1.00
ELEC.10674	ELEC.FUSE.DUAL ELEMENT. TIME DELAY.125 AMP FUSE.FRS-R-125, 4A465	Bussman	EA	11.00	11.00
ELEC.10833	ELEC.FUSE.FRS-R-110.110 AMP.600 VOLT	Bussman	EA	12.00	12.00
ELEC.10835	ELEC.FUSE.FRS-R-150.150 AMP.600 VOLT	Bussman	EA	14.00	14.00
ELEC.10853	ELEC.FUSE.FRN.R.20 Grainger # 1A696	Bussman	EA	10.00	10.00
ELEC.10904	ELEC.BLOCK.CONTACT BLOCK.1 N/C.CUTLER HAMMER E30KLA2.JW 4140539	Cutler/Hamm er	EA	14.00	14.00
ELEC.10906	ELEC.BLOCK.CONTACT BLOCK.2 N/C.CUTLER HAMMER 10250T3.JW 3633666	Cutler/Hamm er	EA	3.00	3.00
ELEC.10967	ELEC.CONTACTOR.3POLE OPEN TYPE SIZE F.CUTLER HAMMER.CE15FN3A3B.JW 3613732	Cutler/Hamm er	EA	2.00	2.00
ELEC.10993	ELEC.RELAY TIMED OFF 120 VOLT 50/60 HX INACTV 81E2A605.JW 4141072	Jetway	EA	4.00	4.00
ELEC.11040	ELEC.SWITCH.PUSH BUTTON SWITCH.800T-A1D1	Allen-Bradley	EA	3.00	3.00
ELEC.11041	ELEC.SWITCH.PUSH BUTTON SWITCH.800T-A2D1	Allen-Bradley	EA	1.00	1.00

ELEC.11042	ELEC.SWITCH.PUSH BUTTON SWITCH.800T-A9D1	Allen-Bradley	EA	4.00	4.00
ELEC.11045	ELEC.SWITCH.SELECTOR SWITCH.2 POSITION.800T-H33A	Allen-Bradley	EA	5.00	5.00
ELEC.11063	ELEC.LIGHT.PILOT LIGHT.PUSH TO TEST.AMBER	Allen-Bradley	EA	1.00	1.00
ELEC.11064	ELEC.LIGHT.PILOT LIGHT.PUSH TO TEST.BLUE	Allen-Bradley	EA	1.00	1.00
ELEC.11065	ELEC.LIGHT.PILOT LIGHT.PUSH TO TEST.GREEN	Allen-Bradley	EA	1.00	1.00
ELEC.11172	ELEC.BUTTON.PUSH BUTTON.OPERATOR DOUBLE BUTTON.JW 4140412	Jetway	EA	4.00	4.00
ELEC.11175	ELEC.CONTACTOR.REVERSING CONTACTOR.3 PHASE.SIZE B.60 HZ.CUTLER HAMMER C306DN3	Cutler/Hammer	EA	1.00	1.00
ELEC.11218	ELEC.CAPACITOR.3300 UF 450.520CE1111.JW 3703616	Jetway	EA	13.00	13.00
ELEC.11224	ELEC.SWITCH.LIMIT SWITCH.LSQ002.JW 4100044	Jetway	EA	2.00	2.00
ELEC.11272	ELEC.PAD.THERMO PAD.4.25 X 2.44.JW 4501347	Jetway	EA	8.00	8.00
ELEC.11448	ELEC.BUTTON.PUSH BUTTON.IPB GREEN.1NO/1NC	Allen-Bradley	EA	2.00	2.00
ELEC.11456	ELEC.BUTTON.PUSH BUTTON.MOMENTARY 1 NO FLUSH HEAD.BLACK 800T-A2D1	Allen-Bradley	EA	1.00	1.00
ELEC.11457	ELEC.BUTTON.PUSH BUTTON.1 NO.YELLOW AB 800T-A9D1	Allen-Bradley	EA	2.00	2.00
ELEC.11458	ELEC.BUTTON.PUSH BUTTON.FLUSH HEAD.GRAY AB 800T-A4D1	Allen-Bradley	EA	2.00	2.00
ELEC.11497	ELEC.FUSE.LPJ-20SP	Bussman	EA	10.00	10.00
ELEC.11504	ELEC.FUSE.LPJ-60SP	Bussman	EA	30.00	30.00
ELEC.11507	ELEC.FUSE.LPJ-30SP	Bussman	EA	10.00	10.00
ELEC.11595	ELEC.BUTTON.PUSH BUTTON.FLUSH HEAD PUSH BUTTON.1NO 30MM.GREEN	Allen-Bradley	EA	1.00	1.00
ELEC.11601	ELEC.LENS.PILOT LIGHT.30MM.120 VAC. AMBER LENS	Allen-Bradley	EA	1.00	1.00
ELEC.11602	ELEC.LENS.PILOT LIGHT.30MM.120 VAC. BLUE LENS	Allen-Bradley	EA	2.00	2.00
ELEC.11604	ELEC.LENS.PILOT LIGHT.30MM.120 VAC. RED LENS.800T-P16R	Allen-Bradley	EA	1.00	1.00
ELEC.11605	ELEC.LENS.PILOT LIGHT.30MM.120 VAC. WHITE LENS	Allen-Bradley	EA	4.00	4.00
ELEC.11718	ELEC.RELAY.TYPE P RELAY.ALLEN BRADLEY.700-P200A1	Allen-Bradley	EA	1.00	1.00
ELEC.11719	ELEC.RELAY.TYPE P RELAY.ALLEN BRADLEY.700-P400A1	Allen-Bradley	EA	5.00	5.00
ELEC.11790	ELEC.FUSE.5 AMP.250 VOLT	Bussman	EA	39.00	39.00
ELEC.11818	ELEC.HOLDER.LAMP HLDR for PAR 56 BULBS.JW 4080180		EA	4.00	4.00
ELEC.11893	ELEC.FUSE.10 AMP.FRN-R-10	Bussman	EA	19.00	19.00
ELEC.11895	ELEC.FUSE.2 AMP.FRN-R-2 Grainger # 2A156	Bussman	EA	10.00	10.00
ELEC.11896	ELEC.FUSE.2 AMP.FRN-R-2R	Bussman	EA	18.00	18.00
ELEC.11909	ELEC.FUSE.3 AMP.FRN-R-3	Bussman	EA	10.00	10.00
ELEC.12030	ELEC.LIGHTING ASSEMBLY.BEACON LIGHTING ASSEMBLY ROTATING WITH RED DOME.121S-120R	Federal Signal	EA	2.00	2.00
ELEC.12039	ELEC.LIGHT.ALLEN BRADLEY LIGHT.WHITE.800T-P16W	Allen-Bradley	EA	1.00	1.00
ELEC.12063	ELEC.LAMP.BEACON LAMP 40 WATT.120 VOLT.03629, WWG 5V757	GE	EA	36.00	36.00
ELEC.12064	ELEC.CONTACTOR.9 AMP CONTACTOR FOR 1, 2, AND 3 HP.100C09UD10	Allen-Bradley	EA	22.00	22.00
ELEC.12065	ELEC.CONTACTOR.12 AMP CONTACTOR FOR 5 HP.100C12UD10	Allen-Bradley	EA	2.00	2.00

ELEC.12066	ELEC.CONTACTOR.16 AMP CONTACTOR FOR 3 HP VFD.100C16UD10	Allen-Bradley	EA	3.00	3.00
ELEC.12067	ELEC.CONTACTOR.23 AMP CONTACTOR FOR VSU PANEL FEED.100C23UD10	Allen-Bradley	EA	1.00	1.00
ELEC.12068	ELEC.CONTACTOR.37 AMP CONTACTOR FOR PUSHER PANEL FEED.100C37UD10	Allen-Bradley	EA	1.00	1.00
ELEC.12069	ELEC.CONTACTOR.REVERSING CONTACTOR.9 AMP FOR 1,2, AND 3 HP REVERSING.104C09UD22	Allen-Bradley	EA	2.00	2.00
ELEC.12070	ELEC.LINK.FUSIBLE LINK FOR FIRE DOOR.1204A14		EA	4.00	4.00
ELEC.12071	ELEC.LAMP.MINI LAMP.12 PSB	GE	EA	24.00	24.00
ELEC.12073	ELEC.BREAKER.CIRCUIT BREAKER.480 VOLT.5 AMP.1492-CB1G050	Allen-Bradley	EA	3.00	3.00
ELEC.12074	ELEC.BREAKER.CIRCUIT BREAKER.480 VOLT.10 AMP.1492-CB1G100	Allen-Bradley	EA	1.00	1.00
ELEC.12075	ELEC.BREAKER.CIRCUIT BREAKER.480 VOLT.20 AMP.1492-CB1G200	Allen-Bradley	EA	1.00	1.00
ELEC.12076	ELEC.BREAKER.CIRCUIT BREAKER.480 VOLT.3 AMP.1492-CB1G030	Allen-Bradley	EA	3.00	3.00
ELEC.12077	ELEC.SWITCH.DISCONNECT SWITCH, AUXILLARY CONTACT.1494V-595-A	Allen-Bradley	EA	1.00	1.00
ELEC.12078	ELEC.SWITCH.DISCONNECT SWITCH.30 AMP.600 VOLT.1494V-DH633	Allen-Bradley	EA	1.00	1.00
ELEC.12079	ELEC.MODULE.CONTROL LOGIX ETHERNET MODULE.1756-ENET	Allen-Bradley	EA	2.00	2.00
ELEC.12080	ELEC.PLC.CONTROL LOGIX PLC.1756-L55M24	Allen-Bradley	EA	2.00	2.00
ELEC.12081	ELEC.MODULE.OUTPUT MODULE.RELAY OUTPUT MODULE.1756-OW16I	Allen-Bradley	EA	2.00	2.00
ELEC.12082	ELEC.POWER SUPPLY.CONTROL LOGIX RACK POWER SUPPLY.1756-PA75	Allen-Bradley	EA	6.00	6.00
ELEC.12083	ELEC.CONTROLLER.MICROLOGIX 1000.FIXED I/O 1 K WORD MEM CONTROLLER.1756-L32AWA	Allen-Bradley	EA	2.00	2.00
ELEC.12084	ELEC.CONTROLNET T-TAP WITH RIGHT ANGLE BNC CONNECTOR.1756-TPR	Allen-Bradley	EA	7.00	7.00
ELEC.12085	ELEC.CONTROLNET T-TAP WITH STRAIGHT BNC CONNECTOR.1756-TPS	Allen-Bradley	EA	1.00	1.00
ELEC.12086	ELEC.DIODE.ULTRA FAST SWITCHING DIODE.6 AMP.17C7949	Allen-Bradley	EA	2.00	2.00
ELEC.12087	ELEC.SWITCH.DOWN LIMIT SWITCH FOR FIREDOR.1903-1212	Allen-Bradley	EA	3.00	3.00
ELEC.12088	ELEC.SWITCH.LOAD SWITCH IEC.194L-A20-1751	Allen-Bradley	EA	2.00	2.00
ELEC.12089	ELEC.SWITCH.LOAD SWITCH IEC.ON/OFF SELECTOR RED/YELLOW.194L-HE6N-175	Allen-Bradley	EA	2.00	2.00
ELEC.12090	ELEC.BLOCK.CONTACT BLOCK 10250T44.2515156-44	Cutler/Hammer	EA	2.00	2.00
ELEC.12091	ELEC.LENS.PLASTIC LENS.RED.2515156-C21		EA	1.00	1.00
ELEC.12092	ELEC.STARTER.MOTOR STARTER.REVERSING MOTOR STARTER 3-3 POLE.2515171		EA	1.00	1.00
ELEC.12093	ELEC.HEATER.OVERLOAD HEATER.H2006-3.25152	Cutler/Hammer	EA	8.00	8.00
ELEC.12094	ELEC.HEATER.OVERLOAD HEATER.H2005-3.2515211	Cutler/Hammer	EA	34.00	34.00
ELEC.12095	ELEC.HEATER.OVERLOAD HEATER.H2003-3.2515212	Cutler/Hammer	EA	5.00	5.00
ELEC.12096	ELEC.HEATER.OVERLOAD HEATER.H2007-3.2515213	Cutler/Hammer	EA	11.00	11.00
ELEC.12097	ELEC.HEATER.OVERLOAD HEATER.H2008-3.2515214	Cutler/Hammer	EA	6.00	6.00

ELEC.12098	ELEC.HEATER.OVERLOAD HEATER.H2009-3.2515215	Cutler/Hammer	EA	12.00	12.00
ELEC.12099	ELEC.HEATER.OVERLOAD HEATER.H2010-3.2515216	Cutler/Hammer	EA	26.00	26.00
ELEC.121	Switch, Contact Block, 2 NO Contacts	Allen-Bradley	EA	1.00	1.00
ELEC.12100	ELEC.CONTACT.AUXILLARY CONTACT SIDE CONTACT 1 NO/1 NC.2515257	Allen-Bradley	EA	2.00	2.00
ELEC.12101	ELEC.STARTER.MOTOR STARTER 3 POLE.2515277	Allen-Bradley	EA	3.00	3.00
ELEC.12102	ELEC.STARTER.MOTOR STARTER 3 POLE.SIZE 1.2515278	Allen-Bradley	EA	1.00	1.00
ELEC.12103	ELEC.RELAY.CONTROL RELAY.120 VAC.4 POLE.4 NO.2515287	Allen-Bradley	EA	1.00	1.00
ELEC.12104	ELEC.RELAY.CONTROL RELAY.120 VAC.4 POLE.4 NC.2515288	Allen-Bradley	EA	1.00	1.00
ELEC.12105	ELEC.CONTACT.RELAY AUXILLARY CONTACT.TMR ATTACH 2 POLE.2515290	Allen-Bradley	EA	2.00	2.00
ELEC.12106	ELEC.RELAY.120 VAC.4 POLE. 2 NO/2 NC.2515292	Allen-Bradley	EA	1.00	1.00
ELEC.12107	ELEC.CONTACT.RELAY AUX CONTACT.4 NC.2515298	Allen-Bradley	EA	3.00	3.00
ELEC.12108	ELEC.CONTACT.RELAY AUX CONTACT.2 NO.2515300	Allen-Bradley	EA	2.00	2.00
ELEC.12109	ELEC.PUSH BUTTON.E STOP PUSH BUTTON ILLUMINATING.2515431	Allen-Bradley	EA	10.00	10.00
ELEC.12110	ELEC.PUSH BUTTON.E STOP.C/H E STOP HEAD.2515431-TC47	Allen-Bradley	EA	35.00	35.00
ELEC.12111	ELEC.SWITCH.SELECTOR SWITCH.2 POSITION. 1 NO/1NC.2515511	Allen-Bradley	EA	1.00	1.00
ELEC.12112	ELEC.SWITCH.SELECTOR SWITCH.SPRING RETURN. 1NO/1 NC.2515512	Allen-Bradley	EA	2.00	2.00
ELEC.12113	ELEC.LIGHT.PILOT LIGHT.STANDARD WHITE PILOT LIGHT.2515550	Allen-Bradley	EA	1.00	1.00
ELEC.12114	ELEC.LIGHT.PILOT LIGHT MINIATURE.PUSH TO TEST.RED.2515564	Allen-Bradley	EA	1.00	1.00
ELEC.12115	ELEC.FUSE.FRSR FUSE.600 VOLT. 1 AMP.2556120	Bussman	EA	23.00	23.00
ELEC.12116	ELEC.FUSE.FRSR FUSE.600 VOLT. 2 AMP.2556121	Bussman	EA	12.00	12.00
ELEC.12117	ELEC.FUSE.FRSR FUSE.600 VOLT. 5 AMP.2556123	Bussman	EA	33.00	33.00
ELEC.12118	ELEC.FUSE.FRSR FUSE.600 VOLT. 10 AMP.2556125	Bussman	EA	11.00	11.00
ELEC.12119	ELEC.FUSE.FRSR FUSE.600 VOLT. 20 AMP.2556127	Bussman	EA	8.00	8.00
ELEC.12120	ELEC.FUSE.FRSR FUSE.600 VOLT. 40 AMP.2556130	Bussman	EA	13.00	13.00
ELEC.12121	ELEC.FUSE.FRSR FUSE.600 VOLT. 50 AMP.2556131	Bussman	EA	6.00	6.00
ELEC.12122	ELEC.FUSE.7 AMP.250 VOLT	Bussman	EA	9.00	9.00
ELEC.12123	ELEC.TIMER.MOTOR DRIVEN TIMER 0-30 MIN.2564107		EA	3.00	3.00
ELEC.12124	ELEC.SWITCH.SELECTOR SWITCH.2 POSTION		EA	2.00	2.00
ELEC.12126	ELEC.COVER.SWITCH COVER DUPLEX IVORY 2 GANG.JW 4010032		EA	3.00	3.00
ELEC.12127	ELEC.LAMP.FLOURESCENT LAMP.4'.40 WATT.JW 4080019	Jetway	EA	19.00	19.00
ELEC.12128	ELEC.LAMP.FLLOD LIGHT.300 WATT.120 VOLT.JW 4080028	Jetway	EA	17.00	17.00
ELEC.12129	ELEC.BULB.LT LAMP BULB.75 WATT.120 VOLT.JW 4080043	Jetway	EA	3.00	3.00
ELEC.12130	ELEC.BULB.LT LAMP BULB.40 WATT.120 VOLT.JW 4080182	Jetway	EA	8.00	8.00
ELEC.12131	ELEC.BALLAST.2 LAMP BALLAST.120 VOLT.60 HZ.4' FIXTURE.JW 4080214	Jetway	EA	3.00	3.00
ELEC.12133	ELEC.SWITCH.LIMIT SWITCH.LSF7L DT.JW 4100084	Jetway	EA	1.00	1.00
ELEC.12134	ELEC.SWITCH.LIMIT SWITCH PLUNGER 90 DEGREE.JW 4100093	Jetway	EA	2.00	2.00

ELEC.12135	ELEC.SWITCH.LIMIT SWITCH EXTERNAL PLUNGER 90 DEGREE.JW 4100095	Jetway	EA	1.00	1.00
ELEC.12136	ELEC.RECEPTACLE.DUPLEX RECEPTACLE.20 AMP.120 VOLT.IVORY.JW 4130003	Jetway	EA	3.00	3.00
ELEC.12137	ELEC.FUSE.10 AMP 600 VOLT FUSE.JW 4140014	Jetway	EA	33.00	33.00
ELEC.12138	ELEC.FUSE.15 AMP 600 VOLT FUSE.JW 4140015	Jetway	EA	68.00	68.00
ELEC.12139	ELEC.FUSE.3 AMP 600 VOLT FUSE.JW 4140017	Jetway	EA	46.00	46.00
ELEC.12140	ELEC.CONTACTOR.REVERSING CONTACTOR.3 POLE.JW 4140969	Jetway	EA	1.00	1.00
ELEC.12141	ELEC.FUSE.20 AMP 250 VOLT FUSE.JW 4141046	Jetway	EA	43.00	43.00
ELEC.12142	ELEC.FUSE.100 AMP 600 VOLT FUSE.JW 4141254	Jetway	EA	15.00	15.00
ELEC.12143	ELEC.LIGHT.PILOT LIGHT 28 VOLT GREEN AC/DC.JW 4141276	Jetway	EA	3.00	3.00
ELEC.12144	ELEC.FUSE.3 AMP 500 VOLT FUSE.JW 4141283	Jetway	EA	44.00	44.00
ELEC.12145	ELEC.RELAY.2 POLE NO.10 AMP 600 VOLT.JW 4141411	Jetway	EA	2.00	2.00
ELEC.12146	ELEC.BLOCK.CONTACTOR BLOCK.2 NO 6 AMP.JW 4141615	Jetway	EA	5.00	5.00
ELEC.12148	ELEC.METER.HEIGHT INDICATOR FULL SCALE LED METER.JW 4141652	Jetway	EA	1.00	1.00
ELEC.12149	ELEC.LENS.BAE-146.JW 4142122	Jetway	EA	1.00	1.00
ELEC.12150	ELEC.LENS.MD-80.JW 4142123	Jetway	EA	2.00	2.00
ELEC.12151	ELEC.LENS.B-737.JW 4142124	Jetway	EA	2.00	2.00
ELEC.12152	ELEC.LENS.A-320.JW 4142125	Jetway	EA	2.00	2.00
ELEC.12153	ELEC.LENS.B-757.JW 4142126	Jetway	EA	1.00	1.00
ELEC.12154	ELEC.LENS.B-767.JW 4142127	Jetway	EA	2.00	2.00
ELEC.12155	ELEC.LAMP.28 VOLT.40 MA.34 MSCD.JW 4500463	Jetway	EA	43.00	43.00
ELEC.12156	ELEC.TRANSISTOR.POWER MDL 100 AMP 1000 VOLT.JW 4500973	Jetway	EA	4.00	4.00
ELEC.12157	ELEC.METER.HOUR METER.450111	Jetway	EA	1.00	1.00
ELEC.12158	ELEC.KIT.TRANSISTOR REPLACEMENT KIT 60/90/200.JW 4501441	Jetway	EA	2.00	2.00
ELEC.12159	ELEC.CABLE BIT 3 1/2 DIGITAL METER.JW 4502360	Jetway	EA	1.00	1.00
ELEC.12160	ELEC.HOLDER.LAMP HOLDER.22 MM T-3 1/4 BAYONET.JW 4503411	Jetway	EA	5.00	5.00
ELEC.12161	ELEC.BLOCK.CONTACT BLOCK 1NO.53623768		EA	5.00	5.00
ELEC.12163	ELEC.RELAY.BIFRURCATGED GOLD CONTACTS RELAY.24 VDC.700-HC54Z24	Allen-Bradley	EA	1.00	1.00
ELEC.12164	ELEC.RELAY.DPDT.120 VAC COIL RELAY.700-HK32A1	Allen-Bradley	EA	1.00	1.00
ELEC.12165	ELEC.RELAY.2 POLE HK RELAY.12 VDC COIL.700HK32Z12	Allen-Bradley	EA	3.00	3.00
ELEC.12166	ELEC.RELAY.2 POLE HK RELAY.24 VDC COIL.700HK32Z24	Allen-Bradley	EA	10.00	10.00
ELEC.12167	ELEC.RELAY.SURGE SUPPRESSOR.700-N5	Allen-Bradley	EA	1.00	1.00
ELEC.12168	ELEC.RELAY.24 VDC COIL.DPDT.2 FORM.C CONTACT.700HK32Z24-4	Allen-Bradley	EA	1.00	1.00
ELEC.12169	ELEC.SWITCH.SELECTOR SWITCH.2 POSITION.1 NO.800T-H2D1	Allen-Bradley	EA	1.00	1.00
ELEC.12170	ELEC.SWITCH.SELECTOR SWITCH.3 POSITION.800T-J91A	Allen-Bradley	EA	1.00	1.00
ELEC.12171	ELEC.LIGHT.PILOT LIGHT.AMBER.120 VOLT.800T-P16A	Allen-Bradley	EA	1.00	1.00
ELEC.12173	ELEC.LIGHT.PILOT LIGHT.GREEN.120 VOLT.800T-P16G	Allen-Bradley	EA	3.00	3.00

ELEC.12175	ELEC.BUTTON.PUSHBUTTON.ALLEN BRADLEY.2 NC.MOMENTARY.800T-PA16BA4	Allen-Bradley	EA	1.00	1.00
ELEC.12178	ELEC.CONTACT SWITCH 1 NC.SET OF CONTACTS FOR ESTOPS.800T-XD6	Allen-Bradley	EA	1.00	1.00
ELEC.12179	ELEC.CABLE 2 CONDUCTOR.16 GAUGE FOIL SHIELD	Baldor	EA	1.00	1.00
ELEC.12181	ELEC.LIGHT.STACKABLE SOUND MODULE SINGLE TONE.855T-B10SA1	Allen-Bradley	EA	1.00	1.00
ELEC.12182	ELEC.SWITCH.PROXIMITY SWITCH.872C-M8-NP18-A2	Allen-Bradley	EA	1.00	1.00
ELEC.12183	ELEC.SWITCH.TEMPERATURE SWITCH NO.A-TEMNO		EA	1.00	1.00
ELEC.12184	ELEC.FUSE.5 AMP.32 VOLT.AGU-5	Bussman	EA	10.00	10.00
ELEC.12187	ELEC.OVERLOAD LUG ADAPTERS.C306KAL1-3	Cutler/Hammer	EA	2.00	2.00
ELEC.12188	ELEC.KIT.DISCONNECT HANDLE KIT FOR MCP.C361H1	Cutler/Hammer	EA	1.00	1.00
ELEC.12189	ELEC.ASEMBLY..DISCONNECT ASSEMBLY FOR MCP.C361SD-162	Cutler/Hammer	EA	3.00	3.00
ELEC.12190	ELEC.FEED BACK CABLE ENCODER 20" LONG 12 PIN CONNECT.CBL061SF-ALM	Baldor	EA	1.00	1.00
ELEC.12191	ELEC.CABLE POWER CORD 20' LONG.CBL061SP-3	Baldor	EA	1.00	1.00
ELEC.12192	ELEC.SWITCH.AUXILIARY CONTACT SWITCH NO.CDAUX10	Allen-Bradley	EA	1.00	1.00
ELEC.12193	ELEC.DISCONNECT.30 AMP.3 POLE.CFD30J3	Bussman	EA	1.00	1.00
ELEC.12195	ELEC.FUSE.125 VOLT.1 AMP.FNA-1	Bussman	EA	19.00	19.00
ELEC.12196	ELEC.FUSE.125 VOLT.2 AMP.FNA-2	Bussman	EA	5.00	5.00
ELEC.12197	ELEC.FUSE.125 VOLT.3 AMP.FNA-3	Bussman	EA	13.00	13.00
ELEC.12198	ELEC.FUSE.125 VOLT.5 AMP.FNA-5	Bussman	EA	8.00	8.00
ELEC.12199	ELEC.FUSE.125 VOLT.7 AMP.FNA-7	Bussman	EA	15.00	15.00
ELEC.12200	ELEC.FUSE.125 VOLT.12 AMP.FRN-R-12	Bussman	EA	10.00	10.00
ELEC.12201	ELEC.FUSE.125 VOLT.4 AMP.FRN-R-4	Bussman	EA	10.00	10.00
ELEC.12202	ELEC.FUSE.125 VOLT.45 AMP.FRN-R-45	Bussman	EA	10.00	10.00
ELEC.12203	ELEC.FUSE.TYPE CC.1 AMP.FRQ-R1	Bussman	EA	10.00	10.00
ELEC.12204	ELEC.FUSE.300 VOLT.10 AMP.GLR-10	Bussman	EA	2.00	2.00
ELEC.12205	ELEC.CABLE.AT SERIAL PRINTER CABLE DB25 MALE/D89 FEMALE.EVMBPC-0010	Black Box	EA	2.00	2.00
ELEC.12206	ELEC.POWER SUPPLY.24 VDC.3.6 AMP.HN24-3.6A	Newark	EA	1.00	1.00
ELEC.12207	ELEC.TRANSFORMER.480 V PRI/120 V SEC.60 HZ 5 KVA.HS5F5AS	Sola	EA	3.00	3.00
ELEC.12208	ELEC.CONVERTER.RS232/RS485.IC476A-M-R2	Black Box	EA	1.00	1.00
ELEC.12209	ELEC.BLOCK.FUSE BLOCK.3-POLE.30 AMP 600 VOLT.J60030-3C	Bussman	EA	4.00	4.00
ELEC.12210	ELEC.BLOCK.FUSE BLOCK.3-POLE.60 AMP 600 VOLT.J60060-3C	Bussman	EA	8.00	8.00
ELEC.12211	ELEC.FUSE.15 AMP 600 VOLT.LPS-15SP	Bussman	EA	14.00	14.00
ELEC.12212	ELEC.FUSE.35 AMP 600 VOLT.LPS-35SP	Bussman	EA	10.00	10.00
ELEC.12213	ELEC.SWITCH.ON AND OFF SWITCH.9300-0057	Grainger	EA	2.00	2.00
ELEC.12216	ELEC.FUSE BLOCK.1 POLE 30 AMP 250 VOLT.R25030-1-PR	Bussman	EA	13.00	13.00
ELEC.12217	ELEC.FUSE BLOCK.1 POLE 60 AMP 250 VOLT.R25060-1-PR	Bussman	EA	2.00	2.00
ELEC.12218	ELEC.FUSE BLOCK.2 POLE 30 AMP 600 VOLT.R60030-2-PR	Bussman	EA	2.00	2.00

ELEC.122180	Light, Stack Module, Red	Allen-Bradley	EA	1.00	1.00
ELEC.12219	ELEC.RESISTOR.3.9K OHM.1/2 WATT.CARBON	Newark	EA	1.00	1.00
ELEC.12220	ELEC.HEATER.OVERLOAD HEATER.W53	Allen-Bradley	EA	2.00	2.00
FINGERS	BEARING & PAWL ASSY. (FIRE DOOR)		EA	2.00	2.00
FRN-R-5	Fuse, 5 Amp, 125 VDC, 250 VAC	Bussman	EA	40.00	40.00
FSTNR.10011	Lacing #13x100' NY093-C NYLOSTEEL, 02628	Clipper	EA	13.00	13.00
FSTNR.10070	FSTNR.BOLT.5/8" X 18 X 14.JW 3689358	Jetway	EA	38.00	38.00
FSTNR.10139	FSTNR.FASTNER.PIN.COTTER PIN.2 1/2 "	Grainger	EA	10.00	10.00
FSTNR.10166	FSTNR.FASTNER.WASHER.THRUST WASHER.OILITE BRONZE THRUST WASHER	Grainger	EA	86.00	86.00
FSTNR.10167	FSTNR.FASTNER.NUT.LIMIT NUT FOR FIREDOOR.1006- 2800	Grainger	EA	8.00	8.00
FSTNR.10168	FSTNR.FASTNER.AXLE BOLT FOR DUMPSTER	Grainger	EA	10.00	10.00
FSTNR.10199	THRUST WASHER TRANSITREAD.0400551	Grainger	EA	86.00	86.00
GEAR.10012	GEAR.MOT GEAR 5 HP HORIZONTAL 35:1.JW 4960599	Jetway	EA	4.00	4.00
GEAR.10013	GEAR.MOT GEAR 3 HP VERTICAL 25:1.JW 4960608	Jetway	EA	7.00	7.00
GEAR.10014	GEAR.MOT GEAR 3 HP 47 RPM C FACE.JW 4960609	Jetway	EA	1.00	1.00
GEAR.10015	GEAR.MOT GEAR 1/2 HP FOR JETPOWER HOIST.JW 4960653	Jetway	EA	1.00	1.00
GEAR.1016	MOT GEAR 1/2HP CAB ROTG/DROP	Jetway	EA	1.00	1.00
GPU.10009	GPU.BOARD.CIRCUIT BOARD.KEY PAD.INFTC.2910016	Jetway	EA	3.00	3.00
GPU.10012	GPU.BOARD.CIRCUIT BOARD.V/CONT/V3-1.120 VOLT.2911367	Jetway	EA	4.00	4.00
GPU.10014	GPU.BOARD.CIRCUIT BOARD.BITE 2 480/120 VOLT.2911449	Jetway	EA	3.00	3.00
GPU.10015	GPU.BOARD.CIRCUIT BOARD.LOGIC 4.2911597	Jetway	EA	3.00	3.00
GPU.10016	GPU.BOARD.CIRCUIT BOARD.24 PHASE.2910144	Jetway	EA	6.00	6.00
GPU.10020	GPU.CAPACITOR.ELECT.5100 UFD.350 VOLT.4500983	Jetway	EA	2.00	2.00
GPU.10024	GPU.BOARD.CIRCUIT BOARD.MOTHER BOARD.2910163	Jetway	EA	2.00	2.00
GPU.10033	GPU.HEAD.GPU CABLE HEAD.J AND B.JB 7174	Jetway	EA	18.00	18.00
GPU.10056	GPU.BOARD.CIRCUIT BOARD.PWR SUPPLY ASSY.JW 2910162	Jetway	EA	1.00	1.00
GPU.10062	GPU.SW MOD.ON/OFF.JB 232.JW 3628553	Jetway	EA	4.00	4.00
GPU.10064	GPU.BAR.BUS BAR.400 HZ BUS BAR.41/2" LONG.COPPER	Jetway	EA	1.00	1.00
GPU.10084	GPU.BOARD.CIRCUIT BOARD.24 PHASE PWN WITH PARALLEL.JW 2912623	Jetway	EA	1.00	1.00
GPU.10086	GPU.CABLE.60 FOOT CABLE ASSEMBLY WITH 4 BUTTONS.JB 9516-60	Jetway	EA	1.00	1.00
GS-W201SA	POTABLE WATER CONNECTOR	Jetway	EA	7.00	7.00
HB482CN140TC	Reducer, Helical, 10.93:1 Ratio, Quantis	Dodge	EA	1.00	1.00
HVAC.10208	HVAC.FILTER.PLEATED AIR FILTER.20 X 25 X 1	Jetway	EA	22.00	22.00
HVAC.10811	HVAC.VALVE.BALL VALVE FOR REGULATOR.1 NPT.JW 3669737	Jetway	EA	15.00	15.00
HVAC.10812	HVAC.DRIER.FILTER DRIER.7/8 SEALED.500022	Jetway	EA	9.00	9.00
LOCK.10166	LOCK.COMBO LOCK.UNICAN DOOR LOCK.5U742	Unican	EA	1.00	1.00
MOT.10032	MOT.BALDOR MOTOR 1.5 hp.35A001P802G7, prev.EM3554T, Frame 145T	Baldor	EA	3.00	3.00
MOT.10082	Motor CM3611T 3 HP Frame=182TC	Baldor	EA	8.00	8.00



MOT.10085	Motor EM3546T 1 HP Frame=143T	Baldor	EA	2.00	2.00
MOT.10102	VM3546 Baldor Motor 1HP Frame=56C	Baldor	EA	4.00	4.00
MOT.10105	MOT.BALDOR MOTOR 5HP. VM3615T, Frame184TC	Baldor	EA	1.00	1.00
MOT.10114	MOT.MOTOR.BALDOR.VM3611T 3.0Hp Frame=182TC	Baldor	EA	2.00	2.00
MOT.10131	MOT.BM3611T.	Baldor	EA	4.00	4.00
MOT.10137	MOT.GEAR MOTOR.CAB ROTATE.G DROP.1/2 HP.3648674	Baldor	EA	3.00	3.00
MOT.10152	MOT.BALDOR/RELIANCE.3HP,BM3611T-S,prev P18A7300,182TFRAME	Baldor	EA	6.00	6.00
MOT.10185	MOT.BALDOR MOTOR 2 HP 1725 RPM. BM3558T w/brake, prev P14H7202H	Baldor	EA	12.00	12.00
MOT.10216	MOT.MOTOR.1 HP.143T.1750 RPM	Baldor	EA	1.00	1.00
MOT.10217	MOT.MOTOR.1.5 HP.145T.1750 RPM	Baldor	EA	4.00	4.00
MOT.10218	MOT.MOTOR.3 HP.182T.1750 RPM	Baldor	EA	6.00	6.00
MOT.10219	MOT.MOTOR.5 HP.184T.TEFC	Baldor	EA	1.00	1.00
MOT.10220	MOT.MOTOR.CAROUSEL MOTOR.7.5 HP.213TC.1750 RPM	Baldor	EA	3.00	3.00
MOT.10223	MOT.SERVOMOTOR 230 INCH/LB 17.5 AMPS.600 VOLTS 4000 RPM.B5M100A-3150AA	Baldor	EA	1.00	1.00
MOT.10225	MOT.DRIVE MOTOR WITH BRAKE.2400 RPM 460 VOLT.BSM100B-4250BA	Baldor	EA	1.00	1.00
MOT.10226	MOT.BALDOR MOTOR.CBM3546T	Baldor	EA	3.00	3.00
MOV	Surge Protector Switch	Grainger	EA	1.00	1.00
N10001	3VX315 BELT	Dayton	EA	8.00	8.00
NUT 7/8-14	HEX JAM NUT CAROUSEL	Grainger	EA	138.00	138.00
O4F-4	RECTIFIER, SUMITOMO	Sumitomo	EA	10.00	10.00
PCA.10208	PCA.ASSEMBLY.JB WARNING BELL ASSEMBLY.802252	Jetway	EA	3.00	3.00
PCA.10209	PCA.GRILLE.WARNING HORN.EXTERNAL MOUNT GRILLE.876-N5	Jetway	EA	2.00	2.00
PLB.10000	PLB.TIRE.TIRE ASSEMBLY.TIRE TUBE.JW 2129808	Jetway	EA	20.00	20.00
PLB.10001	PLB.BOARD.CIRCUIT BOARD.POWER SUPPLY DC	Jetway	EA	2.00	2.00
PLB.10006	PLB.CABLE ASSEMBLY.HEIGHT INDICATOR.NON PVC	Jetway	EA	4.00	4.00
PLB.10015	PLB.ESTOP.4141037	Jetway	EA	1.00	1.00
PLB.10016	PLB.BUZZER.2900HZ.30/120 VOLT.FAST.4150008	Jetway	EA	22.00	22.00
PLB.10022	PLB.LENS.CONSOLE LENS.ON.BLACK.JW 4140425	Jetway	EA	4.00	4.00
PLB.10031	PLB.TIRE.40X14X24 PLY.RECAP.3694080	Jetway	EA	15.00	15.00
PLB.10050	PLB.BLOCK.CNTOR BLOCK.1 N/O.10 AMP.3623768	Jetway	EA	9.00	9.00
PLB.10081	PLB.LAMP.LED LAMP.RED.24 VDC.4503331	Jetway	EA	12.00	12.00
PLB.10082	PLB.LAMP.LED LAMP.GREEN.24 VDC.4503332	Jetway	EA	5.00	5.00
PLB.10083	PLB.LAMP.LED LAMP.YELLOW.24 VDC.4503333	Jetway	EA	5.00	5.00
PLB.10091	PLB.SWITCH.PRESSURE SWITCH.FAN CYCLING.JW500021	Jetway	EA	1.00	1.00
PLB.10114	PLB.BEARING.WHEEL BEARING.CONE TAPER.4.00010X6.000 OD.3671514	Jetway	EA	2.00	2.00
PLB.10116	PLB.BOARD.CIRCUIT BOARD.AUTO LEVEL RELAY CIRCUIT BOARD.2900556	Jetway	EA	5.00	5.00
PLB.10126	PLB.BOLT.COLUMN BOLT.1-8 X 5.GRADE 5.5060020	Jetway	EA	8.00	8.00
PLB.10144	PLB.LENS.CONSOLE LENS.BLACK.DIGITAL READOUT SWING.4140421	Jetway	EA	3.00	3.00

PLB.10145	PLB.LENS.CONSOLE LENS.RED.AUTO LEVELER WARNING.4140442	Jetway	EA	2.00	2.00
PLB.10151	PLB.LENS.CONSOLE LENS.GREEN.ARROW POINT UP.4141077-501	Jetway	EA	4.00	4.00
PLB.10153	PLB.LENS.CONSOLE LENS.GREEN.ARROW POINT RIGHT.4141077-500	Jetway	EA	4.00	4.00
PLB.10155	PLB.LENS.CONSOLE LENS.RED.LIFT COLUMN FAULT.4141080.502	Jetway	EA	1.00	1.00
PLB.10156	PLB.LENS.CONSOLE LENS.WHITE.STEER.4140903	Jetway	EA	9.00	9.00
PLB.10157	PLB.LENS.CONSOLE LENS.RED.OVERSTEER.4140806	Jetway	EA	3.00	3.00
PLB.10160	PLB.LENS.CONSOLE LENS.RED.400 HZ CABLE ENGAGED.4140487-503	Jetway	EA	2.00	2.00
PLB.10162	PLB.LENS.CONSOLE LENS.AMBER.AUTO LEVELER ON.4140457	Jetway	EA	6.00	6.00
PLB.10163	PLB.LENS.CONSOLE LENS.GREEN.POWER ON.4140454	Jetway	EA	5.00	5.00
PLB.10164	PLB.LENS.CONSOLE LENS.WHITE.VERT DRIVE.4140471	Jetway	EA	3.00	3.00
PLB.10165	PLB.LENS.CONSOLE LENS.WHITE.CAB ROTATE.4140467	Jetway	EA	3.00	3.00
PLB.10167	PLB.LENS.CONSOLE LENS.WHITE.CAB FLOOR IN MANUAL.4141821	Jetway	EA	3.00	3.00
PLB.10169	PLB.LENS.CONSOLE LENS.WHITE.CAB FLOOR IN AUTO.4141822	Jetway	EA	2.00	2.00
PLB.10173	PLB.RECTIFIER.SILICONE RECTIFIER.160A.1400 VOLT.4500992	Jetway	EA	4.00	4.00
PLB.10176	PLB.BOARD.DISCHARGE BOARD.2910921	Jetway	EA	9.00	9.00
PLB.10177	PLB.BOARD.CIRCUIT BOARD.IGBT DRIVE.2911693	Jetway	EA	3.00	3.00
PLB.10185	PLB.BOARD.CIRCUIT BOARD SUPPR ASSY.2910178	Jetway	EA	1.00	1.00
PLB.10194	PLB.JETPACK.90 AMP.240 VOLT.2910040	Jetway	EA	7.00	7.00
PLB.10202	PLB.BOARD.CIRCUIT BOARD.HGT XDCR ASSY.2910109	Jetway	EA	1.00	1.00
PLB.10205	PLB.INDICATOR.WHEEL POSITION INDICATOR.4141187	Jetway	EA	2.00	2.00
PLB.10207	PLB.METER.3 1/2" DIGIT PNL.5 VOLT.4501699	Jetway	EA	1.00	1.00
PLB.10220	PLB.BEARING ROLLER. JW#3671056, s/w/sl = 2 x 1.25 x 2 McGill CF-2-S	McGill	EA	2.00	2.00
PLB.10228	PLB.BOLT.ROLLER ADJUSTMENT BOLT. 1 1/4"-7 X 5 1/4".1600692-500	Jetway	EA	20.00	20.00
PLB.10252	PLB.MOTOR.GEAR MOTOR.1/2 HP.FOR JET POWER HOIST.3650123	Jetway	EA	1.00	1.00
PLB.12253	PLB.BRAKE.LINING BRAKE.4500752	Jetway	EA	6.00	6.00
PLB.12341	PLB.ROLLER.TUNNEL ROLLER.JW 8007503	Jetway	EA	8.00	8.00
PLB.12382	PLB.BUTTON.ARROW BUTTON.BLUE.JW 4141079.500	Jetway	EA	4.00	4.00
PLB.12410	PLB.ROLLER.TUNNEL ROLLER.FOR TUNNEL B.RIGHT AND LEFT SIDE.JW.1600622	Jetway	EA	5.00	5.00
PLB.12440	PLB.BOLT.ROLLER BOLT.1 1/4"-7 X 4 1/2".JW 1600692-501	Jetway	EA	8.00	8.00
PLB.12444	PLB.BEARING.THRUST BEARING.5/8 X 1 X 1/8.JW 3670423	Jetway	EA	0.00	0.00
PLB.12454	PLB.ASSEMBLY.AUTO LEVEL ASSEMBLY.JW 2002220	Jetway	EA	1.00	1.00
PLB.12458	PLB.BEARING.THRUST BEARING SPHER.RACE BEARING.JW 3671671	Jetway	EA	8.00	8.00
PLB.12484	PLM.COMPRESSOR.REFRIG COMPRESSOR.15 TON.JW 3630985	Jetway	EA	8.00	8.00
PLB.12502	PLB.ROLLER.CAB ROLLER.4 1/2" OD X 1 X 1 3/8".A519.JW 2001251	Jetway	EA	3.00	3.00
PLB.12503	PLB.KIT.BALL SCREW KIT WITH NUT TAPERED.3 X 12' 4.JW 3640979	Jetway	EA	2.00	2.00
PLB.12538	PLB.LINEAR.ACTR LINEAR.1' STRK.115 VAC.	Jetway	EA	1.00	1.00

PLB.12542	PLB.CASTER.SWIVEL CASTER.8 INCH.JW 3676001	Jetway	EA	2.00	2.00
PLB.12564	PLB.BALL SCREW WITH NUT.JW 2001613	Jetway	EA	6.00	6.00
PLB.12565	PLB.LIMIT.ARM SPACER LIMIT 1' 6" WITH ROLLER.JW 2101684	Jetway	EA	4.00	4.00
PLB.12567	PLB.STRAP.POLYESTER STRAP .06 X 2 X 2".JW 2107120	Jetway	EA	10.00	10.00
PLB.12568	PLB.BOARD.CIRCUIT BOARD.HEIGHT INDICATOR.JW 2911219	Jetway	EA	2.00	2.00
PLB.12569	PLB.TRANSISTOR.INV ASSY PWN # 1 140 KVA TRANSISTOR.JW 2911749	Jetway	EA	2.00	2.00
PLB.12570	PLB.BOARD.CIRCUIT BOARD.SILICONE CONTROL RECTIFIER ASSEMBLY RAMP.JW 2912162	Jetway	EA	3.00	3.00
PLB.12571	PLB.KIT.FSTNR DRIVE COLUMN SPCR KIT.JW 3613540	Jetway	EA	6.00	6.00
PLB.12572	PLB.KIT.INACTV KIT.DRIVE COLUMN FSTNR TO TUNNEL.JW 3613542	Jetway	EA	5.00	5.00
PLB.12573	PLB.KIT.INACTV KIT.FSTNR DRIVE COLUMN TUNNEL UP.JW 3613543	Jetway	EA	9.00	9.00
PLB.12574	PLB.BLOCK DISTR SINGLE POLE X 11 CKTS.JW 3627294	Jetway	EA	3.00	3.00
PLB.12575	PLB.KIT.DC POWER SUPPLY REPLACEMENT KIT.JW 3631970	Jetway	EA	2.00	2.00
PLB.12576	PLB.VALVE.EVAPORATOR PRESSURE REGULATOR VALVE.1 5/8".JW 3632379	Jetway	EA	5.00	5.00
PLB.12577	PLB.MOT DAMPER ACTUATOR SPRING RETURN.JW 3634747	Jetway	EA	1.00	1.00
PLB.12578	PLB.PANEL.PANEL CLG 8 X 5' 11 BR ALUM DONN.JW 3648020	Jetway	EA	4.00	4.00
PLB.12579	PLB.ACTUATOR.ARM ACTUATOR.12" LONG LEVER.JW 4100071	Jetway	EA	6.00	6.00
PLB.12580	PLB.LEDS.RED SPACER LIMIT TRIPPED LENS.JW 4141080-500	Jetway	EA	1.00	1.00
PLB.12581	PLB.LEDS.RED SWING LIMIT WARNING LENS.JW 4141080-501	Jetway	EA	3.00	3.00
PLB.12582	PLB.OPER UNIV 2 NO.JW 4141132	Jetway	EA	3.00	3.00
PLB.12584	PLB.TUBING.PVC NYLON TUBING.3/4 X 1.125 X 100'.JW 4160195	Jetway	EA	65.00	65.00
PLB.12585	PLB.BRAKE.LINING BRAKE.4500831	Jetway	EA	3.00	3.00
PLB.12587	PLB.WHEEL.SPARE WHEEL 24 PLY RECAP.JW 8015604	Jetway	EA	1.00	1.00
PLM.10407	PLM.POTABLE WATER.MOTOR.1/2 HP.JW4960658	Jetway	EA	3.00	3.00
PLM.12345	PLM.ORING.WATER COUPLING O RING.GRAINGER 1CGN8	Grainger	EA	11.00	11.00
PLM.12354	PLM.POTABLE WATER.QUICK CONNECT LONG,V1041JS012A00	J&B Aviation	EA	2.00	2.00
PLM.12355	PLM.POTABLE WATER.PLUG.8022-12A	J&B Aviation	EA	23.00	23.00
PULL.10136	PULL.SNUB PULLEY. 4 X 26.38205-27	Maverick	EA	7.00	7.00
PULL.10137	PULL.SNUB PULLEY. 4 X 44.38205-25	Maverick	EA	2.00	2.00
PULL.10138	PULL.SNUB PULLEY. 4 X 26.38401-26	Maverick	EA	1.00	1.00
PULL.10139	PULL.PULLEY. 4 X 32.38401-32	Maverick	EA	6.00	6.00
PULL.10140	PULL.LAG PULLEY.6 X 32 LAG WITH 2517 TAPERLOCK.38602-38L	Maverick	EA	1.00	1.00
PULL.10141	PULL.6 X 38.38602-38L	Maverick	EA	1.00	1.00
PULL.10142	PULL.LAG PULLEY.8 X 32.38701-32L	Maverick	EA	1.00	1.00
PULL.10143	PULL.8 X 32.38702-32L	Maverick	EA	2.00	2.00
PULL.10144	PULL.LAG PULLEY.10 X 32.38802-32L	Maverick	EA	1.00	1.00
PULL.10145	PULL.DEAD SHAFT PULLEY.4 1/2 X 37 1/2	Maverick	EA	1.00	1.00

PULL.10146	PULL.VERTICAL SORT UNIT PULLEY.6 3/4" DIAMETER.P5421510010	Webb	EA	1.00	1.00
PULL.10147	PULL.3' 3".4 1/2" DIAMETER. 1 7/16" SHAFT.P5591000039	Webb	EA	6.00	6.00
PULL.10148	PULL.3' 3".4 1/2" DIAMETER. 1 7/16" SHAFT.P5592000039	Webb	EA	6.00	6.00
PULL.10149	PULL.SNUB PULLEY.3' 3". 4 1/2" DIAMETER.1 7/16" SHAFT.P5602624039	Webb	EA	13.00	13.00
PULL.10150	PULL.TAKE UP PULLEY.3' 3". 4 1/2" DIAMETER.1 7/16" SHAFT.P5604631039	Webb	EA	15.00	15.00
PULL.10151	PULL.3' 3". 6" DIAMETER.1 7/16" SHAFT.P5614601139	Webb	EA	10.00	10.00
PULL.10152	PULL.3' 3".6" FLAT DIAMETER.1 7/16" SHAFT.P5614602139	Webb	EA	3.00	3.00
PULL.10153	PULL.3' 3".6-3/4" FLAT DIAMETER.1 7/16" SHAFT.P5616003039	Webb	EA	2.00	2.00
PULL.10154	PULL.2' 6".6-3/4" FLAT DIAMETER.1 11/16" SHAFT.P5616003239	Webb	EA	8.00	8.00
PULL.10155	PULL.3' 3".6-3/4" FLAT DIAMETER.1 7/16" SHAFT NEOPRENE LAG.P5616301239	Webb	EA	3.00	3.00
PULL.10156	PULL.3' 3".8-3/4" FLAT DIAMETER.1 11/16" SHAFT NEOPRENE LAG.P5626601039	Webb	EA	2.00	2.00
PULL.10157	PULL.3' 3".8-3/4" FLAT DIAMETER.1 11/16" SHAFT-1.P5626601139	Webb	EA	1.00	1.00
PULL.10158	PULL.3' 3".8-3/4" FLAT DIAMETER.1 11/16" SHAFT-2.P5626601239	Webb	EA	4.00	4.00
PULL.10159	PULL.3' 3".10-3/4" FLAT DIAMETER.1 11/16" SHAFT.P5636601239	Webb	EA	1.00	1.00
PULL.10160	PULL.DRIVE BED CONVEYOR PIVOTING DIVERter PULLEY.P5995181001	Webb	EA	1.00	1.00
PULL.10161	PULL.ASSEMBLY HEAD BED CONVEYOR PIVOTING DIVERter ASSEMBLY PULLEY.P5995181002	Webb	EA	1.00	1.00
RDCR.10019	SR-DODGE RDCR.TORQUE SPEED REDUCER.TXT109T..241032	Dodge	EA	4.00	4.00
RDCR.10025	ABHS Reducer TXT125T	Dodge	EA	7.00	7.00
RDCR.10028	Torque Arm Assembly TXT1-ABHS, 241213	Dodge	EA	30.00	30.00
RDCR.10029	Torque Arm Assembly TXT2-ABHS	Dodge	EA	4.00	4.00
RDCR.10030	Torque Arm Assembly TXT3-ABHS	Dodge	EA	10.00	10.00
RDCR.10031	Torque Arm Assembly TXT4-ABHS	Dodge	EA	1.00	1.00
RDCR.10048	RDCR.REDUCER.DODGE.ABHS REDUCER.TXT115T.241155	Dodge	EA	7.00	7.00
RDCR.10053	RDCR.REDUCER.ABHS.REDUCER.TXT325AT, 243251	Dodge	EA	4.00	4.00
RDCR.10215	RDCR.REDUCER.DODGE REDUCER.ABHS REDUCER.TXT215T.DODGE 242257	Dodge	EA	1.00	1.00
RDCR.10216	RDCR.REDUCER.DODGE REDUCER.ABHS REDUCER.TXT225T.DODGE 242258	Dodge	EA	2.00	2.00
RDCR.10218	RDCR.REDUCER.DODGE REDUCER.ABHS REDUCER.TXT425AT.DODGE 244251	Dodge	EA	1.00	1.00
RDCR.10227	RDCR.REDUCER.DODGE TXT125T ABHS3125.DODGE # 241153	Dodge	EA	2.00	2.00
RDCR.10230	RDCR.REDUCER.DODGE REDUCER.TXT105T.DODGE # 251120	Dodge	EA	3.00	3.00
RDCR.10241	RDCR.REDUCER.HELICAL REDUCER.10.72:1 FLANGE MOUNT.BF383CN140TC	Dodge	EA	1.00	1.00
RDCR.10242	RDCR.REDUCER.HELICAL REDUCER.28.72:1 FLANGE MOUNT.BF383CN140TC28.72	Dodge	EA	1.00	1.00

RDCR.10245	RDCR.REDUCER.CYCLOIDAL REDUCER.43:1 RATIO.CHHJ5-6175Y-43	Sumitomo	EA	3.00	3.00
RDCR.10247	RDCR.REDUCER.QUANTIS REDUCER.HELICAL QUANTIS REDUCER.6.71:1 RATIO.HB482CN180TC	Dodge	EA	1.00	1.00
RDCR.10248	RDCR.REDUCER.QUANTIS REDUCER.HELICAL QUANTIS REDUCER.10.93:1 RATIO.HB482CN140TC	Dodge	EA	1.00	1.00
RDCR.10250	RDCR.REDUCER.HELICAL QUANTIS REDUCER.13.38:1 RATIO.HB482CN140TC13.88	Dodge	EA	1.00	1.00
RDCR.10251	RDCR.REDUCER.HELICAL QUANTIS REDUCER.FRONT MOUNT 41.26:1 RATIO.HB482CN140TC41.26	Dodge	EA	1.00	1.00
RDCR.10252	RDCR.REDUCER.HELICAL QUANTIS REDUCER.8.29:1 RATIO.HB482CN140TC8.29	Dodge	EA	1.00	1.00
RDCR.10253	RDCR.REDUCER.HELICAL QUANTIS REDUCER.9.76:1 RATIO.HB482CN180TC	Dodge	EA	1.00	1.00
RDCR.10254	RDCR.REDUCER.HELICAL QUANTIS REDUCER.8.29:1 RATIO.HB482CN180TC8.29	Dodge	EA	1.00	1.00
RDCR.10255	RDCR.REDUCER.HELICAL WORM REDUCER.20:1 RATIO.MSHV40-C7A	Cone Drive	EA	1.00	1.00
RDCR.10258	RDCR.REDUCER.20:1 RATIO.SM-HYPONIC.FOOT MOUNTED.RNFJ-1420-RY-X1-20	Sumitomo	EA	1.00	1.00
RDCR.10259	RDCR.REDUCER.20:1 RATIO.SM-HYPON.RNFJ-1420-LY- X1-20	Sumitomo	EA	1.00	1.00
SAFE.10006	Rotating Light 121S-120A	Federal Signal	EA	2.00	2.00
SHV.10047	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 7.75.DODGE 118044	Dodge	EA	1.00	1.00
SHV.10048	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 8.95.DODGE 118045	Dodge	EA	7.00	7.00
SHV.10049	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 12.75.DODGE 118048	Dodge	EA	4.00	4.00
SHV.10050	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 15.75.DODGE 118049	Dodge	EA	2.00	2.00
SHV.10051	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 5.55.DODGE 118220	Dodge	EA	3.00	3.00
SHV.10052	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 5.95.DODGE 118222	Dodge	EA	1.00	1.00
SHV.10053	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 6.35.DODGE 118224	Dodge	EA	1.00	1.00
SHV.10054	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 6.75.DODGE 118226	Dodge	EA	1.00	1.00
SHV.10055	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 7.15.DODGE 118228	Dodge	EA	2.00	2.00
SHV.10056	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 4.15.DODGE 118306	Dodge	EA	3.00	3.00
SHV.10057	SHV.SHEAVE.VBELT SHEAVE.2 GROOVE.OD 8.35.DODGE 118345	Dodge	EA	1.00	1.00
SHV.10058	SHV.SHEAVE.2 GROOVE SHEAVE.3V.2.65, 1108 TLJW 4600100	Jetway	EA	1.00	1.00
SHV.10059	SHV.SHEAVE.2 GROOVE SHEAVE.3V.2.8, 1108 TLJW 4600110	Jetway	EA	1.00	1.00
SHV.10060	SHV.SHEAVE.2 GROOVE SHEAVE.3V.3.0, 1210 TLJW 4600120	Jetway	EA	2.00	2.00
SHV.10061	SHV.SHEAVE.2 GROOVE SHEAVE.3V.3.15, 1210 TLJW 4600130	Jetway	EA	3.00	3.00
SHV.10062	SHV.SHEAVE.2 GROOVE SHEAVE.3V.3.65, 1610 TLJW 4600150	Jetway	EA	1.00	1.00
SHV.10063	SHV.SHEAVE.2 GROOVE SHEAVE.3V.4.12, 1610 TLJW 4600160	Jetway	EA	1.00	1.00
SHV.10064	SHV.SHEAVE.2 GROOVE SHEAVE.3V.4.5, 1610 TLJW 4600170	Jetway	EA	1.00	1.00

SHV.10065	SHV.SHEAVE.2 GROOVE SHEAVE.3V.4.75, 1610 TLJW 4600180	Jetway	EA	1.00	1.00
SHV.10066	SHV.SHEAVE.2 GROOVE SHEAVE.3V.5.0, 1610 TLJW 4600190	Jetway	EA	1.00	1.00
SHV.10067	SHV.SHEAVE.2 GROOVE SHEAVE.3V.5.3, 1610 TLJW 4600200	Jetway	EA	2.00	2.00
SHV.10068	SHV.SHEAVE.2 GROOVE SHEAVE.3V.5.6, 1610 TLJW 4600210	Jetway	EA	1.00	1.00
SHV.10069	SHV.SHEAVE.2 GROOVE SHEAVE.3V.6.0, 1610 TLJW 4600220	Jetway	EA	2.00	2.00
SPRKT.10007	SPRKT.SPROCKET.MARTIN.60BTB36	Martin	EA	0.00	0.00
SPRKT.10125	SPRKT.SPROCKET.TAPERLOCK.60BTL16H	Martin	EA	2.00	2.00
SPRKT.10144	SPRKT.SPROCKET/BRAKE FOR FIRE DOOR.41B40		EA	3.00	3.00
SPRKT.10145	SPRKT.SPROCKET.1210 TLJW 4806030	Jetway	EA	1.00	1.00
SPRKT.10146	SPRKT.SPROCKET.1610 TLJW 4806040	Jetway	EA	1.00	1.00
SPRKT.10147	SPRKT.SPROCKET.1610 TLJW 4806050	Jetway	EA	1.00	1.00
SPRKT.10148	SPRKT.SPROCKET.18T.1610 TLJW 4806070	Jetway	EA	1.00	1.00
SPRKT.10149	SPRKT.SPROCKET.60 BTL 19T.1610 TLJW 4806080 (n/a 2010 \$)	Jetway	EA	1.00	1.00
SPRKT.10150	SPRKT.SPROCKET.20T.2012 TLJW 4806090	Jetway	EA	1.00	1.00
SPRKT.10151	SPRKT.SPROCKET.22T.2012 TLJW 4806110	Jetway	EA	1.00	1.00
SPRKT.10152	SPRKT.SPROCKET.23T.2012 TLJW 4806120	Jetway	EA	1.00	1.00
SPRKT.10153	SPRKT.SPROCKET.35T.2012 TLJW 4806190	Jetway	EA	1.00	1.00
SPRKT.10154	SPRKT.SPROCKET.35T.2012 TLJW 4806200	Jetway	EA	1.00	1.00
SPRKT.10155	SPRKT.SPROCKET.14T.1615 TLJW 4808040	Jetway	EA	1.00	1.00
SPRKT.10156	SPRKT.SPROCKET.26T.2417 TLJW 4808160	Jetway	EA	2.00	2.00
SPRKT.10157	SPRKT.SPROCKET.80BS13HT 1 15/16, JW 4908039	Jetway	EA	8.00	8.00
SPRKT.10158	SPRKT.SPROCKET.50BTL18H	Martin	EA	1.00	1.00
SPRKT.10159	SPRKT.SPROCKET.50BTL24	Martin	EA	1.00	1.00
SPRKT.10160	SPRKT.SPROCKET.50TL17	Martin	EA	1.00	1.00
SPRKT.10161	SPRKT.SPROCKET.50TL20	Martin	EA	1.00	1.00
SPRKT.10162	SPRKT.ROLLER CHAIN SPROCKET.RC-60.4.794.20 TEETH.60B20F	Martin	EA	1.00	1.00
SPRKT.10163	SPRKT.SPROCKET.2012 60BTL21H, 100572	Gates	EA	2.00	2.00
SPRKT.10164	SPRKT.SPROCKET.ASA 60.20 TEETH.1 1/4" DIA BORE.P174523	Gates	EA	1.00	1.00
SPRKT.10165	SPRKT.SPROCKET.3.409 PITCH DIA.34 TEETH.0.03 BELT WIDTH.P34-8MGT-30	Gates	EA	1.00	1.00
SPRKT.10166	SPRKT.SPROCKET.4.01 DIA.40 TEETH.0.03 BELT WIDTH.P40-8MGT-30	Gates	EA	2.00	2.00
SPRKT.10167	SPRKT.SPROCKET.4.411 DIA.44 TEETH.0.03 BELT WIDTH.P44-8MGT-30	Gates	EA	1.00	1.00
STRU.10386	STRU.SHEET.RUBBER SHEET.12 X 12 X 1/16.MCMASTER CARR 1845T22	McMaster- Carr	EA	8.00	8.00
STRU.10414	STRU.CASTER.WHEEL CASTER.V GROOVE.4" X 2" X 1/2".22835T41	McMaster- Carr	EA	2.00	2.00
STRU.10502	STRU.KIT.JOINT SEAL KIT.SWIVEL JOINT SEAL KIT.1"	McMaster- Carr	EA	1.00	1.00
STRU.10503	STRU.PANEL.LEFT HAND END ROLL PANEL.36500		EA	1.00	1.00
STRU.10505	STRU.CHAIN/COUPLING CHAIN.1 3/4" X 4 X 1 7/8".JW 3673113	Jetway	EA	20.00	20.00
STRU.10506	STRU.LATCH.LATCH FASTENER ADJ.JW 3689102	Jetway	EA	5.00	5.00

STRU.10507	STRU.CLAMP.TOGGLE CLAMP.200 # CAPACITY.JW 3689371	Jetway	EA	3.00	3.00
STRU.10508	STRU.STOP.DOOR STOP US26D FINISH.JW 3691022	Jetway	EA	4.00	4.00
STRU.10509	STRU.CLOSURE.DOOR CLOSURE WITH REGULAR ARM.INACTIVE.JW 3691220	Jetway	EA	3.00	3.00
STRU.10511	STRU.PAD.CASTER PADS FOR DUMPSTER.4CP	McMaster-Carr	EA	15.00	15.00
STRU.10513	STRU.DETECTOR.SMOKE DETECTOR.500056	Jetway	EA	4.00	4.00
STRU.10514	STRU.WIRE.CABLE HOIST WIRE	McMaster-Carr	FT	100.00	100.00
STRU.10515	STRU.CHAIN.CHAIN FOR FIRE DOOR.57-07-105	Cycle Pro	EA	2.00	2.00
STRU.10516	STRU.LINK.MASTER LINK FOR FIRE DOOR CHAIN.57-07-105 LINK	Cycle Pro	EA	4.00	4.00
STRU.10521	STRU.PLYWOOD.4 X 8 3/4 AA MARINE GRADE PLYWOOD	Jetway	EA	1.00	1.00
STRU.10522	STRU.MOLDING.CARPET MOLDING.ALUMINUM CARPET FLEX MOLDING WITHOUT BARB.JW 7660150	Jetway	EA	12.00	12.00
STRU.10523	STRU.MOLDING.COUNTER NOSING MOLDING.ALUMINUM.12 FOOT SECTION.JW 7660302	Jetway	EA	2.00	2.00
STRU.10524	STRU.TIRE.BALLOON TIRE FOR DUMPSTER	McMaster-Carr	EA	34.00	34.00
STRU.10527	STRU.CASTER.RIGID CASTER.R8R	McMaster-Carr	EA	5.00	5.00
STRU.10528	STRU.BRAKE ASSEMBLY.DYNAMIC BRAKE ASSEMBLY.RGA620	Baldor	EA	1.00	1.00
STRU.10529	STRU.CASTER.SWIVEL CASTER.S8R	McMaster-Carr	EA	5.00	5.00
STRU.10530	STRU.TRIM.CARPET TRIM BAR	McMaster-Carr	EA	5.00	5.00
TA281212	MAKE UP CONTROL TRANSFORMER	Acme	EA	1.00	1.00
U2-SP-S	Belt Lacing, 430 SS, #U2 Clipper	Clipper	EA	66.00	66.00
VBELT.10004	V-belt AX56 Gold Ribbon Cog Belt	Dayton	EA	1.00	1.00
VBELT.10007	V-belt AX53 Gold Ribbon Cog Belt	Dayton	EA	1.00	1.00
VBELT.10010	VBelt. AX48 Gold Ribbon Cog Belt	Dayton	EA	2.00	2.00
VBELT.10026	VBELT.3VX-335	Dayton	EA	5.00	5.00
VBELT.10030	VBELT.AX44, (46")	Dayton	EA	8.00	8.00
VBELT.10031	VBelt. AX 68	Dayton	EA	1.00	1.00
VBELT.10037	VBELT.AX40, Grainger # 1YVU8	Dayton	EA	2.00	2.00
VBELT.10047	VBELT.AX51	Dayton	EA	1.00	1.00
VBELT.10073	VBELT.3VX-530	Dayton	EA	7.00	7.00
VBELT.10085	VBELT.AX55	Dayton	EA	1.00	1.00
VBELT.10099	VBELT.AX45	Dayton	EA	9.00	9.00
VBELT.10106	VBELT.3VX560	Dayton	EA	15.00	15.00
VBELT.10107	VBELT.3VX630	Dayton	EA	9.00	9.00
VBELT.10116	VBELT.3VX600	Dayton	EA	0.00	0.00
VBELT.10134	VBELT.3VX280 Grainger 2L379	Dayton	EA	10.00	10.00
VBELT.10155	VBELT.POWER WEDGE BELT.3VX315, (black cabinet in parts room)	Dayton	EA	9.00	9.00
VBELT.10177	VBELT.3VX265	Dayton	EA	13.00	13.00
VBELT.10179	VBELT.3VX250	Dayton	EA	3.00	3.00
VBELT.10180	VBELT.AX TYPE.56.2" LONG WITH 56.2" PITCH LENGTH	Dayton	EA	7.00	7.00

VBELT.10181	VBELT.AX TYPE.57.2" LONG WITH 56.3" PITCH LENGTH	Dayton	EA	2.00	2.00
VBELT.10182	VBELT.AX TYPE.66.2" LONG WITH 65.3" PITCH LENGTH	Dayton	EA	1.00	1.00
VBELT.10183	VBELT.AX TYPE.73.2" LONG WITH 72.3" PITCH LENGTH	Dayton	EA	1.00	1.00



**Attachment F**  
**Terminal C Baggage Handling System Parts List**

Item	Description	Issue Unit	Current Balance	Qty Avbl
AL221-032001	BRG, Pillow Block, 45mm	EA	4.00	4.00
AL226-8002	BRG, Hanger, 25mm	EA	4.00	4.00
AL257-0139	Return Roller	EA	23.00	23.00
AP9630	C1098059 - UPS-Ethernet Interface Card	EA	2.00	2.00
AY031AV	P532551 - MDS Workstations-HP Compaq 8100 Elite PC, (2) NVIDIA	EA	1.00	1.00
A3X189-07-YLW-S	P528877 - Report Server Crossover Cable-7ft CAT6 network cables,	EA	1.00	1.00
BM3611T-S	P8100001370V6 - Motor-3 hp std. eff. Foot Mount w/ 230v Brake Coil	EA	1.00	1.00
BM3615T-S	P8100001380V6 - Motor-5 hp std. eff. Foot Mount w/ 230v Brake Coil	EA	1.00	1.00
BP5248A05	P8100002055V6 - Motor-1.5 hp, Inverter Duty, w/ Shaft Grounding Brush	EA	1.00	1.00
BZ-2RW82299-A2	C1020742 - Switch-Limit Roller Lever	EA	2.00	2.00
CR-3-DB-SB-OC	C1094342 - Motor Starter, VFD DeviceNet, 1 Hp, 24VDC Control	EA	0.00	0.00
DYMO SE300	C1099064 - Printer-Label Writer SE300	EA	0.00	0.00
EXT-DVI-EDIDN	P230492 - Gefen DVI Detective	EA	1.00	1.00
EXT-MINIDVI-241N	C1094782 - Gefen Mini DVI Switcher	EA	1.00	1.00
E12/2 UO/VS STR-C-SE	P8111490736V4 - Belt-Conveyor, Merge, 36" Wide, w/ Lacing Pin	EA	1.00	1.00
E12/2 UO/V5 STR-	P8112474736V4 - Belt-Conveyor, Merge, 36" x 247-1/2" w/Clipper Lacing Ny	EA	1.00	1.00
E12/2 UO/V5 STRC-SE	P8112840736V4 - Belt-Conveyor, Merge, 36" Wide, w/ Lacing Pin	EA	1.00	1.00
E471	P532553 - Sharp 47" LCD monitor	EA	1.00	1.00
FDN20-4S-4XSG	C1088461 - PLC-Block I/O DeviceNet, 4 Input/Output	EA	22.00	22.00
FRN-R2	C1003633 - Fuse-2 Amp, 250 VAC	EA	2.00	2.00
FRN-R20	C1022022 - Fuse-20 Amp, 250VAC	EA	5.00	5.00
FRN-R8	C1006587 - Fuse-8 Amp, 125 VDC / 250 VAC	EA	1.00	1.00
FRS-R15	C1016461 - Fuse-15 Amp, 125 VDC/600V	EA	4.00	4.00
FRS-R30	C1016564 - Fuse-30 Amp, 125 VDC/600V	EA	40.00	40.00
F2L089-06	BELKIN F/F ADAPTER CABLE 6ft	EA	1.00	1.00
F20T12/CW	C1003393 - Lamp-Flourescent, 20W, 24" LG	EA	2.00	2.00
HB482CN140TC/12.2	P221691 - Reducer-Quantis, In-Line Helical, 12.25:1 Ratio	EA	1.00	1.00
HB482CN140TC/16.	P221692 - Reducer-Quantis, In-Line Helical, 16.17:1 Ratio	EA	3.00	3.00
HB482CN140TC/16.17A3SI1.250	P230645 - Reducer-Quantis, In-Line Helical, 16.17:1 Ratio	EA	1.00	1.00
HB482CN180TC/5.15A	Reducer-Quantis, 4.15:1 Ratio, Foot Mount, 180TC	EA	1.00	1.00
HB682CN180TC/20.2A1SI1.625	P234788 - Reducer-Quantis, In-Line Helical, 20.2:1 Ratio	EA	1.00	1.00
HB682LN180TC/20.2A1SI1.625	P231182 - Reducer-Quantis, In-Line Helical, 20.2:1 Ratio	EA	1.00	1.00
HT1F3AS	C1098083 - Transformer, 480 VAC, 3 Phase, 3 KVA	EA	1.00	1.00
HT1F6AS	C1088476 - Transformer, 480 VAC, 3 Phase, 6 KVA	EA	2.00	2.00
KF77-AM213	P229921 - Reducer-Gear, Helical Bevel, 40.04:1 Ratio	EA	1.00	1.00

KLKR3	3 AMP FUSE FOR FIRE DOORS	EA	5.00	5.00
LPS-RK-100SP	C1041674 - Fuse-100 Amp, 600V	EA	1.00	1.00
LPS-RK-110SP	C1083971 - Fuse-110 Amp, 600V	EA	1.00	1.00
LPS-RK-150SP	C1042957 - Fuse-150 Amp, 600V	EA	1.00	1.00
LPS-RK-175SP	C1080807 - Fuse-175 Amp, 600V	EA	1.00	1.00
LPS-RK-20SP	C1040919 - Fuse-20 Amp, 600V	EA	1.00	1.00
LPS-RK-250SP	C1083582 - Fuse-250 Amp, 600V	EA	3.00	3.00
LPS-RK-300SP	C1098648 - Fuse-300 Amp, 600V	EA	1.00	1.00
LPS-RK-70SP	C1042959 - Fuse-70 Amp, 600V	EA	1.00	1.00
LP2475W	P532552 - User Workstation Monitor-HP LCD Monitor TFT, 24" wide	EA	1.00	1.00
MCMWPWMPFCR100	C1092463 - VFD-Dynamic Brake Resistor, 100 OHM, 400 Watt	EA	3.00	3.00
MCMWPWMPFCR150	C1092464 - VFD-Dynamic Brake Resistor, 150 OHM, 400 Watt	EA	17.00	17.00
P170681	P170681 - Chain-Connection Link, RC-80	EA	1.00	1.00
P5000018001	P5000018001 - Take-Up Sprocket Assembly	EA	34.00	34.00
P5376068739V4	P5376068739V4 - Belt-Conveyor, 38-1/4" x 68-7/8", Black, 2 Nylon Guide	EA	1.00	1.00
P5376075539V4	P5376075539V4 - Belt-Conveyor, 38-1/4" x 78-5/8", Black, 2 Nylon Guide	EA	8.00	8.00
P5376091539V4	P5376091539V4 - Belt-Conveyor, 38-1/4" x 91-5/8", Black, 2 Nylon Guide	EA	1.00	1.00
P5376104639V4	P5376104639V4 - Belt-Conveyor, 38-1/4" x 104-3/4", Black, 2 Nylon Guid	EA	1.00	1.00
P5376115039V4	P5376115039V4 - Belt-Conveyor, 38-1/4" x 115", Black, 2 Nylon Guides	EA	1.00	1.00
P5376117039V4	P5376117039V4 - Belt-Conveyor, 3ft 2-1/4" Wide, 117" Lg, Black w/2 Nylo	EA	2.00	2.00
P5376118439V4	P5376118439V4 - Belt-Conveyor, 38-1/4" x 118-1/4", Black, 2 Nylon Guid	EA	1.00	1.00
P5376123239V4	P5376123239V4 - Belt-Conveyor, 38-1/4" x 123-1/4", Black, 2 Nylon Guid	EA	1.00	1.00
P5376131039V4	P5376131039V4 - Belt-Conveyor, 38-1/4" x 131", Black, 2 Nylon Guides	EA	1.00	1.00
P5376141039V4	P5376141039V4 - Belt-Conveyor, 38-1/4" x 141", Black, 2 Nylon Guides	EA	2.00	2.00
P5376144439V4	P5376144439V4 - Belt-Conveyor, 38-1/4" x 144-1/2", Black, 2 Nylon Guid	EA	1.00	1.00
P5376149039V4	P5376149039V4 - Belt-Conveyor, 38-1/4" x 149", Black, 2 Nylon Guides	EA	1.00	1.00
P5376153039V4	P5376153039V4 - Belt-Conveyor, 38-1/4" x 153", Black, 2 Nylon Guides	EA	1.00	1.00
P5376178639V4	P5376178639V4 - Belt-Conveyor, 38-1/4" x 153", Black, 2 Nylon Guides	EA	1.00	1.00
P5591000039	P5591000039 - Pulley-Non Driven, 4-1/2" Dia., Balanced	EA	8.00	8.00
P5592000039	P5592000039 - Pulley-Drive, 4-1/2" Dia., Balanced	EA	1.00	1.00
P5598B30039	P5598B30039 - Pulley-Drive, 4-1/2" Dia, Crowned Face	EA	5.00	5.00
P5598B35039	P5598B35039 - Pulley-Drive, 4-1/2" Dia, Crowned Face	EA	1.00	1.00
P5602624033	P5602624033 - Pulley-Snub, 4" Dia, Flat Face, 1-7/16" Dia Shaft, QD Bushing, Balanced	EA	3.00	3.00
P5602624039	P5602624039 - Pulley-Snub, 4" Dia, Flat Face, 1-7/16" Dia Shaft, QD Bushing, Balanced	EA	20.00	20.00
P5602624045	P5602624045 - Pulley-Snub, 4" Dia, Flat Face, 1-7/16" Dia Shaft, QD Bushing, Balanced	EA	5.00	5.00
P5602624057	P5602624057 - Pulley-Snub, 4" Dia, Flat Face, 1-7/16" Dia Shaft, QD Bushing, Balanced	EA	4.00	4.00

P5604631033	P5604631033 - Pulley-Take Up, 4" Dia Flat Face, 1-7/16" Dia Shaft,	IN	1.00	1.00
P5604631039	P5604631039 - Pulley-Take Up, 4" Dia Flat Face, 1-7/16" Dia Shaft,	IN	10.00	10.00
P5604631045	P5604631045 - Pulley-Take Up, 4" Dia Flat Face, 1-7/16" Dia Shaft,	EA	2.00	2.00
P5604631057	P5604631057 - Pulley-Take Up, 4" Dia Flat Face, 1-7/16" Dia Shaft,	IN	1.00	1.00
P5614302133	P5614302133 - Pulley-Non Driven, 6" Dia., Edge Crowned, QD Bushin	EA	2.00	2.00
P5614302139	P5614302139 - Pulley-Non Driven, 6" Dia., Edge Crowned, QD Bushing	EA	9.00	9.00
P5614302145	P5614302145 - Pulley-Non Driven, 6" Dia., Edge Crowned, QD Bushin	EA	2.00	2.00
P5614302157	P5614302157 - Pulley-Non Driven, 6" Dia., Edge Crowned, QD Bushing	EA	1.00	1.00
P5614601139	P5614601139 - Pulley-Non Driven, 6" Dia., Edge Crowned, QD Bushing	EA	12.00	12.00
P5614601145	P5614601145 - Pulley-Non Driven, 6" Dia., Edge Crowned, QD Bushing	EA	0.00	0.00
P5614601157	P5614601157 - Pulley-Non Driven, 6" Dia., Edge Crowned, QD Bushin	EA	2.00	2.00
P5614802139	P5614802139 - Pulley-Non Driven, 6" Dia, Flat Face, Balanced, Narrow	EA	2.00	2.00
P5616003339	P5616003339 - Pulley-Drive, 6-3/4" Dia, Edge Crowned, Carboxilated	EA	1.00	1.00
P5616301339	P5616301339 - Pulley-Drive, 6-3/4" Dia, Edge Crowned, Carboxilated N	EA	1.00	1.00
P5617B30339	P5617B30339 - Pulley-Drive, 6-3/4" Dia, Crowned, Buffer, Lagged, Bal	EA	2.00	2.00
P5617B35339	P5617B35339 - Pulley-Drive, 6-3/4" Dia, Crowned, Buffer Lagged, Bala	EA	1.00	1.00
P5617N30339	P5617N30339 - Pulley-Drive, 6-3/4" Dia, Crowned, Narrow, Lagged, Ba	EA	1.00	1.00
P5617S30339	P5617S30339 - Pulley-Drive, 6-3/4" Dia, Crowned, Lagged, Balanced	EA	1.00	1.00
P5617S30345	P5617S30345 - Pulley-Drive, 6-3/4" Dia, Crowned, Lagged, Balanced	EA	1.00	1.00
P5617S30357	P5617S30357 - Pulley-Drive, 6-3/4" Dia, Crowned, Lagged, Balanced	EA	1.00	1.00
P5617S35339	P5617S35339 - Pulley-Drive, 6-3/4" Dia, Crowned, Lagged, Balanced	EA	2.00	2.00
P5617S35357	P5617S35357 - Pulley-Drive, 6-3/4" Dia, Crowned, Lagged, Balanced	EA	1.00	1.00
P5626601333	P5626601333 - Pulley-Drive, 8-3/4" Dia, Edge Crowned, Carboxilated	EA	1.00	1.00
P5626601345	P5626601345 - Pulley-Drive, 8-3/4" Dia, Edge Crowned, Carboxilated N	EA	1.00	1.00
P5626601357	P5626601357 - Pulley-Drive, 8-3/4" Dia, Edge Crowned, Carboxilated	EA	1.00	1.00
P5627S30339	P5627S30339 - Pulley-Drive, 8-3/4" Dia, Crowned, Lagged, Balanced	EA	1.00	1.00
P5627S40339	P5627S40339 - Pulley-Drive, 8-3/4" Dia, Edge Crowned, Lagged, Balan	EA	4.00	4.00
P5627S40345	P5627S40345 - Pulley-Drive, 8-3/4" Dia, Edge Crowned, Lagged, Bala	EA	1.00	1.00
P5627S40357	P5627S40357 - Pulley-Drive, 8-3/4" Dia, Edge Crowned, Lagged, Balan	EA	1.00	1.00
P5636601333	P5636601333 - Pulley-Drive, 10-3/4" Dia, Edge Crowned, Carboxilated	EA	1.00	1.00
P5636601345	P5636601345 - Pulley-Drive, 10-3/4" Dia, Edge Crowned, Carboxilated	EA	1.00	1.00
P5636601357	P5636601357 - Pulley-Drive, 10-3/4" Dia, Edge Crowned, Carboxilated	EA	1.00	1.00
P5637S47339	P5637S47339 - Pulley-Drive, 10-3/4" Dia, Edge Crowned, Lagged, Bala	EA	1.00	1.00

P5637S47345	P5637S47345 - Pulley-Drive, 10-3/4" Dia, Edge Crowned, Lagged, Bal	EA	1.00	1.00
P5750001033	P5750001033 - Roller-Return, 2-1/2" Dia.	EA	1.00	1.00
P5750001039	P5750001039 - Roller-Return, 2-1/2" Dia.	EA	1.00	1.00
P5750001045	P5750001045 - Roller-Return, 2-1/2" Dia.	EA	1.00	1.00
P5750001057	P5750001057 - Roller-Return, 2-1/2" Dia.	EA	1.00	1.00
P5750002039	P5750002039 - Roller-Return, 3-1/2" Dia.	EA	18.00	18.00
P5750002045	P5750002045 - Roller-Return, 3-1/2" Dia.	EA	3.00	3.00
P5750002057	P5750002057 - Roller-Return, 3-1/2" Dia.	EA	3.00	3.00
P5995979234	P5995979234 - Pulley-Non Driven, 4-1/2" Dia., Flat Face, V-Groove	EA	2.00	2.00
P5996634207	P5996634207 - Pulley-Drive, 4-1/2" Dia., Flat Face, W/V-Groove	EA	2.00	2.00
P700302	P700302 - Idler Bearing Cone	EA	2.00	2.00
P700303	P700303 - Idler Bearing Cup	EA	2.00	2.00
P700903	P700903 - Wear Strip	EA	1.00	1.00
P701022	P701022 - Damper Block	EA	1.00	1.00
P701101	P701101 - Chain Idler, Nylon	EA	1.00	1.00
P701301	P701301 - Wheel Assembly	EA	115.00	115.00
P701402	P701402 - 3D Bumper, 79.72" Lg	EA	8.00	8.00
P701403	P701403 - 3D Bumper Splice	EA	23.00	23.00
P702501	P702501 - Guard-Finger - 200 ft Roll (Priced per Foot)	FT	200.00	200.00
P703201	P703201 - Pallet-Stainless Steel	EA	36.00	36.00
P720300	P720300 - Sprocket-Drive, 13-Tooth	EA	1.00	1.00
P720900	P720900 - Drive Chain	EA	-1.00	-1.00
P8070001001	P8070001001 - Chain-Roller, RC-40, 7.75ft Long (\$1.56 Per Foot)	EA	0.00	0.00
P8070001002	P8070001002 - Chain-Connection Link, RC-40	EA	18.00	18.00
P8111170438V4	P8111170438V4 - Belt-Conveyor, 3ft 2-1/4" Wide, 117" Lg, Smooth w/2 Ny	EA	1.00	1.00
P8112402360V4	Belt-Conveyor, PVK, Black, FS/FS, 36" Wide	FT	50.00	50.00
P8112402420V4	Belt-Conveyor, PVK, Black, FS/FS, 42" Wide	FT	16.66	16.66
P8112402540V4	Belt-Conveyor, PVK, Black, FS/FS, 54" Wide	FT	33.33	33.33
P8113202360V4	Belt-Conveyor, Monofilament, Black, LG/FR, 36" Wide	FT	33.33	33.33
P8113202420V4	Belt-Conveyor, Monofilament, Black, LG/FR, 42" Wide	FT	25.00	25.00
P8113202540V4	Belt-Conveyor, Monofilament, Black, LG/FR, 54" Wide	FT	25.00	25.00
P8113602300V4	Belt-Conveyor, Monofilament, Black, MT/FR, 30" Wide	FT	4.16	4.16
P8113602360V4	Belt-Conveyor, Monofilament, Black, MT/FR, 36" Wide	FT	25.00	25.00
P8113702360V4	Belt-Conveyor, Monofilament, Black, M/FR, 36" Wide	FT	33.33	33.33
RC-40	P8070001001 - Chain-Roller, RC-40, Length to be specified per order (price per foot)	FT	200.00	200.00
RC-60	P130397 - Chain-Roller, RC-60, specify length 5ft (price per foot)	FT	21.00	21.00
RC-80	P140895 - Chain-Roller, RC-80, specify length 5ft (price per foot)	FT	5.00	5.00
RL-02513	C1092435 - VFD-Reactor, 25 Fund Amps, 480 VAC	EA	5.00	5.00
SBP3000RM2U	C1087248 - ComputerPeripheral-Service Panel	EA	1.00	1.00

SUA027RM	C1094800 - PLC-UPS Adapter Plate, Backplate Kit	EA	1.00	1.00
SUA3000MXL3U	C1094279 - UPS-3U 120VAC 3000VA Rack Mount Uninterrupted Power So	EA	1.00	1.00
SUA48RMXLBP3U	C1094280 - UPS-Battery, Run Time Extending	EA	1.00	1.00
UX-1 SP SS WO/P	P97995 - Belt-Lacing, Stainless, Clipper, 12" Strips, 12 Per Box, UX-1, Short Point	EA	12.00	12.00
VBM3546T-S	P8100001342V6 - Motor-1 hp, Standard, Full Load Amp 1.56	EA	2.00	2.00
VBM3554T-S	P8100001352V6 - Motor-1.5 hp, Standard, Full Load Amp 2.4	EA	1.00	1.00
VBM3558T-S	P8100001362V6 - Motor-2 hp, Standard, Full Load Amp 3.1	EA	3.00	3.00
VBM36116T-S	P8100001372V6 - Motor-3 hp, Standard, Full Load Amp 4.2	EA	4.00	4.00
VBM3615T-S	P8100001382V6 - Motor-5 hp, 184TC, Standard Duty, w/230/460 Brake	EA	1.00	1.00
VCQ290NVS-PCIEX1-PB	P230498 - Graphics Card-Nvidia Quadro NVS 290 Graphics Adapters	EA	1.00	1.00
VUHM3554T	P8100001052V6 - Motor-1.5 hp, Standard, Full Load Amp 2.4	EA	2.00	2.00
VUHM3558T	P8100001062V6 - Motor-2 hp, Standard, Full Load Amp 3.1	EA	4.00	4.00
VUHM3611T	P8100001072V6 - Motor-3 hp, 1750 RPM, Standard, C-Face	EA	8.00	8.00
VUHM3615T	P8100001082V6 - Motor-5 hp, Standard, Full Load Amp 6.5	EA	2.00	2.00
VUHN3546T	P8100001042V6 - Motor-1 hp, standard eff, C-Face, Full Load Amp 1.56	EA	3.00	3.00
WS-G2960G-24TC-L	P525003 - Network Switch-Cisco Catalyst 2960 Series Switch w/ 20	EA	1.00	1.00
WWEBBING-1AA	P700310 - Web Strap, Nylon, 1" Wide w/Black Urethane Coating	EA	200.00	200.00
ZB01	P532554 - Monitor Board-Computer Monitor Terminal Expansion Board	EA	1.00	1.00
07A1SI1.250	Baldor - Reducer-Quantis, In-Line Helical, Double Reduction, 2 P230344	EA	1.00	1.00
07A1SI1.625	Baldor - Reducer-Quantis, In-Line Helical, Double Reduction, 2 P229837	EA	1.00	1.00
100564	P8051160013V3 - Sprocket-Chain Roller, 13-Tooth, 1210, RC-60	EA	1.00	1.00
100565	P8051160014V3 - Sprocket-Chain Roller, 14-Tooth, 1210, RC-60	EA	2.00	2.00
100566	P8051160015V3 - Sprocket-Chain Roller, 15-Tooth, 1610, RC-60	EA	3.00	3.00
100571	P8051160020V3 - Sprocket-Chain Roller, 20-Tooth, 2012, RC-60	EA	2.00	2.00
100572	P8051160021V3 - Sprocket-Chain Roller, 21-Tooth, 2012, RC-60	EA	2.00	2.00
100576	P8051160025V3 - Sprocket-Chain Roller, 25-Tooth, 2012, RC-60	EA	1.00	1.00
100578	P8051160028V3 - Sprocket-Chain Roller, 28-Tooth, 2012, RC-60	EA	1.00	1.00
100579	P8051160030V3 - Sprocket-Chain Roller, 30-Tooth, 2012, RC-60	EA	1.00	1.00
100580	P8051160032V3 - Sprocket-Chain Roller, 32-Tooth, 1210, RC-60	EA	1.00	1.00
100596	P8051180013V3 - Sprocket-Chain Roller, 13-Tooth, 1615, RC-80	EA	1.00	1.00
100597	P8051180014V3 - Sprocket-Chain Roller, 14-Tooth, 1615, RC-80	EA	1.00	1.00
100610	P8051180030V3 - Sprocket-Chain Roller, 30-Tooth, 2517, RC-80	EA	1.00	1.00
100676	P8051160027V3 - Sprocket-Chain Roller, 27-Tooth, 2012, RC-60	EA	2.00	2.00
100679	P8051180028V3 - Sprocket-Chain Roller, 28-Tooth, 2517, RC-80	EA	1.00	1.00
1017866	OTC Controller	EA	3.00	3.00

1018872	CLV490	EA	6.00	6.00
10315	BRG RUBBER TIRE 5/8" KHAKI	EA	20.00	20.00
117080	P8060005017V2 - Bushing-Split Taper Lock, 1-1/8" ID, Series 1210	EA	1.00	1.00
117084	P8060005003V2 - Bushing-Split Taper Lock, 1-1/8" ID, Series 1610	EA	1.00	1.00
117086	P8060005045V2 - Bushing-Split Taper Lock, 1-5/8" ID, Series 1610	EA	3.00	3.00
117092	P8060005065V2 - Bushing-Split Taper Lock, 1-5/8" ID, Series 2012	EA	2.00	2.00
117093	P8060005019V2 - Bushing-Split Taper Lock, 1-11/16" ID, Series 2012	EA	1.00	1.00
117157	P8060005066V2 - Bushing-Split Taper Lock, 1-1/4" ID, Series 1210	EA	2.00	2.00
117161	P8060005028V2 - Bushing-Split Taper Lock, 1-1/4" ID, Series 1610	EA	1.00	1.00
117167	P8060005068V2 - Bushing-Split Taper Lock, 1-7/16" ID, Series 2012	EA	4.00	4.00
117169	P8060005062V2 - Bushing-Split Taper Lock, 1-15/16" ID, Series 2012	EA	1.00	1.00
117173	P8060005049V2 - Bushing-Split Taper Lock, 1.9375 ID, Series 2517	EA	1.00	1.00
118211	P8221000034V2 - Sheave-"V" Belt, 3.0" Dia, AX COG, 2 Grooves, 1210	EA	1.00	1.00
118222	P8221000056V2 - Sheave-"V" Belt, 5.2" Dia, AX COG, 2 Grooves, 1610 B	EA	1.00	1.00
118224	P8221000060V2 - Sheave-"V" Belt, 5.6" Dia, AX COG, 2 Grooves, 1610 Bushing	EA	1.00	1.00
119058	P8060005050V2 - Bushing-Split Taper Lock, 1-5/8" ID, Series 1615	EA	1.00	1.00
128283	P8043107ECV7 - Bearing-End Closure, 1-7/16" Dia	EA	160.00	160.00
128285	P8043111ECV7 - Bearing-End Closure, 1-11/16" Dia	EA	11.00	11.00
128689	P8043115ECV7 - Bearing-End Closure, 1-15/16" Dia	EA	2.00	2.00
1485A-T1M5	C1051831 - Connector-DeviceNet Terminator Male	EA	12.00	12.00
1485F-P1N5-A	C1083005 - Cable-Female DeviceNet, 5-Pin, 1M	EA	13.00	13.00
1485F-P2D5-V5	C1094550 - Cable-Micro, 5 Cond Can Buss/DeviceNet, Straight, Male/RT	EA	3.00	3.00
1485R-P1D5-V5	C1097628 - Cable-DeviceNet, Thin, Drop, Micro, Straight, Male/Micro, RT A	EA	43.00	43.00
1485R-P1D5-Z5	C1097624 - Cable-DeviceNet, Thin, Drop, Micro, Straight, Male/Mini, Right	EA	39.00	39.00
1485R-P1R5-D5	C1082821 - Cable-Micro, 5 Cond Can Buss/DeviceNet, Straight, Male/Fem	EA	31.00	31.00
1485R-P2D5-C	C1097630 - Cable-DeviceNet, Thin, Drop, Micro, Straight, Male/Connector	EA	7.00	7.00
1485R-P2D5-Z5	C1095166 - Cable-DeviceNet, Thin, Drop, Micro, Straight, Male/Mini RT An	EA	1.00	1.00
1485R-P2R5-D5	C1082828 - Cable-Micro, 5 Cond Can Buss/DeviceNet, Straight, Male/Fem	EA	6.00	6.00
1485R-P3D5-V5	C1097629 - Cable-DeviceNet, Thin, Drop, Micro, Straight, Male/Micro RT A	EA	1.00	1.00
1492-CB1G010	C1019281 - Circuit Breaker-1 Amp, 1 Pole, 277 VAC/CDV	EA	0.00	0.00
1492-GH020	Circuit Breaker Allen Bradley	EA	8.00	8.00
1492-GH040	C1083249 - Circuit Breaker-4 Amp, 250VAC	EA	4.00	4.00
1492-GH050	Circuit Breaker Allen Bradley	EA	5.00	5.00
1492-GH100	C1051757 - Circuit Breaker-10 Amp, 250V	EA	13.00	13.00
1606-XLS240E	C1092465 - Power Supply-24VDC/10 Amps	EA	11.00	11.00

1734D-IA8X0A8	C1088605 - PLC-DeviceNet PointBlock 8 Input/8 Output, 120 VAC	EA	2.00	2.00
1734D-IA8X0W8	C1098045 - PLC-DeviceNet Point I/O Block, 8 Inputs/8 Relay Output, 120	EA	3.00	3.00
1734-0A4	C1099085 - PLC-Point I/O 120 VAC, 4 Point Output Module	EA	2.00	2.00
1756-CN2R	ControlNet Adapter Rockwell Automation	EA	2.00	2.00
1756-L62	ControlLogix Processor Module	EA	1.00	1.00
1756-PA72	C1062379 - PLC-ControlLogix Power Supply	EA	1.00	1.00
1756-RM	C1095069 - PLC-ControlLogix Redundancy Module	EA	1.00	1.00
1756-RMC1	C1096513 - Cable-ControlLogix Redundancy Module, 1M	EA	1.00	1.00
1759-L62	C1083284 - PLC-ControlLogix Processor w/Memory Board	EA	0.00	0.00
1768-CNBR	C1098089 - PLC-CompactLogix ControlNet	EA	1.00	1.00
1768-ENBT	C1096198 - PLC-CompactLogix EtherNet	EA	1.00	1.00
1768-EN2T	C1095065 - PLC-ControlLogix Ethernet Module	EA	1.00	1.00
1768-L43	C1096197 - PLC-CompactLogix L43 Processor	EA	2.00	2.00
1769-IQ16	CompactLogix Input Module Allen Bradley	EA	0.00	0.00
1769-L35CR	C1097520 - PLC- CompactLogix Processor, 1.5MB Redundant ControlNet	EA	1.00	1.00
1769-OW8I	C1096328 - PLC-Output Module Compact I/O 8 Pt Isolated	EA	2.00	2.00
1769-PA	C1096200 - PLC-CompactLogix 3A Power Supply	EA	1.00	1.00
1769-PB2	C1076896 - PLC-MicroLogix Expansion Power Supply	EA	1.00	1.00
1786-TPYR	C1052278 - Cable-Drop for ControlNet	EA	16.00	16.00
1786-TYPS	C1068090 - Cable-ControlNet Coax Y-Tap w/Straight BNC Coupler	EA	1.00	1.00
1788-CN2DN	ControlNet to DeviceNet Adapter Rockwell Automation	EA	7.00	7.00
1794-PS13	C1064805 - PLC-Power Supply, 85-264 VAC	EA	1.00	1.00
2DC01	REFECTOR TAPE	EA	1.00	1.00
20035	C1097340 - Meter-Hour	EA	1.00	1.00
2030054	Cloning Modules w/Blower Control Restrictor	EA	2.00	2.00
2030056	Cloning Modules w/Blower Control	EA	6.00	6.00
242168	P8060005032V2 - Bushing-Split Taper Lock, 1-15/16" ID, Series TDT2	EA	1.00	1.00
242258	P8090005023V2 - Reducer-TXT225T, 23.46 Ratio	EA	1.00	1.00
242280	P8090005032V2 - Torque Arm Assembly, TXT2	EA	1.00	1.00
243251	P8090005025V2 - Reducer-TXT325AT, Double Reduction, 24.71:1 Ratio	EA	1.00	1.00
243272	P8060005031V2 - Bushing-Split Taper Lock, 1-15/16" ID, Series TDT3	EA	1.00	1.00
2711-T7C4A2	PanelView Plus 700	EA	2.00	2.00
2751	P173990 - Belt-Connecting Pin, Clipper, Nylon Covered, #25, Cut to Length	EA	200.00	200.00
2767	P173991 - Belt-Connecting Pin, Clipper, Nylon Covered, #13, Cut to Length	EA	200.00	200.00
280D-F12Z-10C-CR-3	C1087749 - Motor Starter, Non-Reversing, DeviceNet, 3 Hp, 24VDC	EA	18.00	18.00
280D-F23Z-25D-CR-3	C1087750 - Motor Starter, Non-Reversing, DeviceNet, 10 Hp, 24VDC	EA	2.00	2.00
283D-FC19Z-25D-CR-	C1096163 - Motor Starter, VFD DeviceNet, 7.5 Hp, 24VDC Control	EA	3.00	3.00
284D-FVD2P3Z-10-	C1094270 - VFD-Armorstart Drive, 1 Hp, 24 VDC, w/Dynamic Brake	EA	14.00	14.00

284D-FVD4P0Z-10-	C1087751 - Motor Starter, VFD DeviceNet, 2 Hp, 24VDC Control	EA	5.00	5.00
284D-FVD6P0Z-25-	C1087753 - Motor Starter, VFD DeviceNet, 3 Hp, 24VDC Control	EA	4.00	4.00
30A06H14SB	Reducer-Tigear2, Helical, 6.5:1 Ratio, Hollow Shaft, Model	EA	3.00	3.00
30A06H18SB	Reducer-Tigear2, Helical, 6.5:1 Ratio, Hollow Shaft, Model	EA	2.00	2.00
30A07H14SB	P8090029139V2 - Reducer-Tigear2, Helical, 7:1 Ratio, Hollow Shaft, Mod	EA	1.00	1.00
30A07H18SB	Reducer-Tigear2, Helical, 7:1 Ratio, Hollow Shaft, Model 3	EA	2.00	2.00
30A10H14SB	P8090029141V2 - Reducer-Tigear2, Helical, 10:1 Ratio, Hollow Shaft, Mo	EA	5.00	5.00
30A10H18SB	P8090029151V2 - Reducer-Tigear2, Helical, 10:1 Ratio, Hollow Shaft, Mo	EA	3.00	3.00
30A15H14SB	P8090029105V2 - Reducer-Tigear2, Helical, 15:1 Ratio, Hollow Shaft, 140	EA	6.00	6.00
30A15H18SB	P8090029106V2 - Reducer-Tigear2, Helical, 15:1 Ratio, Hollow Shaft, Rig	EA	1.00	1.00
30A20H14SB	P8090029107V2 - Reducer-Tigear2, Helical, 20:1 Ratio, Hollow Shaft, Model 30A, 140TC	EA	1.00	1.00
30A20H18SB	Reducer-Tigear2, Helical, 20:1 Ratio, Hollow Shaft, Model	EA	1.00	1.00
30A25H14SB	P8090029108V2 - Reducer-Tigear2, Helical, 25:1 Ratio, Right Angle, Holl	EA	2.00	2.00
30A30H14SB	P8090029144V2 - Reducer-Tigear2, Helical, 30:1 Ratio, Right Angle, Holl	EA	1.00	1.00
30TIERODSPCL	P8090005101V2 - Tie Rod Kit	EA	10.00	10.00
30000	Barrel/Tube Motor Assembly	EA	2.00	2.00
30003	Crank Handles	EA	3.00	3.00
30004	Tube Motor only (12RPM)	EA	2.00	2.00
30004A	Tube Motor only (14RPM)	EA	2.00	2.00
3035TBUSH107	P8060005101V2 - Bushing-Split Taper Lock, Hollow Shaft, 1.4375 ID	EA	36.00	36.00
35A10H14SB	P8090029152V2 - Reducer-Tigear2, Helical, 10:1 Ratio, Hollow Shaft, Rig	EA	1.00	1.00
35A12H14SB	P8090029130V2 - Reducer-Tigear2, Helical, 12:1 Ratio, Hollow Shaft, 140	EA	4.00	4.00
35A12H18SB	P8090029131V2 - Reducer-Tigear2, Helical, 12:1 Ratio, Hollow Shaft, Rig	EA	2.00	2.00
35E567Z538G1	P8100002345V6 - Motor-1 hp, 143TC, Inverter Duty, w/230/460 Brake	EA	2.00	2.00
35TIERODSPCL	P8090005102V2 - Tie Rod Kit	EA	2.00	2.00
35W161T034G1	P8100002065V6 - Motor-2 hp, Inverted Duty, Foot Mount C-Face	EA	5.00	5.00
35W161Z538G1	P8100002045V6 - Motor-1 hp, Inverted Duty, Foot Mount C-Face	EA	10.00	10.00
35Y469Z542G	Motor-2 hp, Inverted Duty, Foot Mount C-Face	EA	2.00	2.00
36A002Y434G2	P8100002075V6 - Motor-3 hp, Inverted Duty, Foot Mount C-Face	EA	3.00	3.00
36E0347W434G7	P8100002375V6 - Motor-3 hp, 1760 RPM, Inverter Duty, C-Face, Foot Mo	EA	2.00	2.00
37A003S619G1	P8100005092V6 - Motor-AC, 7.5Hp, 1675 RPM	EA	2.00	2.00
40A12H18SB	MP8090029119V2 - Reducer-Tigear2, Helical, 12.7:1 Ratio, Hollow Shaft,	EA	3.00	3.00
40A15H14SB	P8090029136V2 - Reducer-Tigear2, Helical, 15:1 Ratio, Hollow Shaft, Mo	EA	3.00	3.00
40A20H18SB	P8090029142V2 - Reducer-Tigear2, Helical, 20:1 Ratio, Hollow Shaft, Model 40A, 180TC	EA	2.00	2.00
40A25H14SB	P8090029155V2 - Reducer-Tigear2, Helical, 25:1 Ratio, Hollow Shaft, Rig	EA	1.00	1.00
40A25H18SB	P8090029153V2 - Reducer-Tigear2, Helical, 25:1 Ratio, Hollow Shaft, Mo	EA	2.00	2.00



40A30H14SB	P8090029145V2 - Reducer-Tigear2, Helical, 30:1 Ratio, Right Angle, Holl	EA	1.00	1.00
40A30H18SB	P8090029114V2 - Reducer-Tigear2, Helical, 30:1 Ratio, Right Angle, Holl	EA	1.00	1.00
40A40H14SB	P8090029159V2 - Reducer-Tigear2, Helical, 40:1 Ratio, Hollow Shaft, Rig	EA	1.00	1.00
40A40H18SB	P8090029167V2 - Reducer-Tigear2, Helical, 40:1 Ratio, Hollow Shaft, Rig	EA	1.00	1.00
40TBUSH111	P8060005104V2 - Bushing-Split Taper Lock, Hollow Shaft, 1-11/16 ID	EA	12.00	12.00
40TIERODSPCL	P8090005103V2 - Tie Rod Kit	EA	4.00	4.00
40277	KB SPROCKET 50B40F 1-11/16" KW A TF	EA	1.00	1.00
402902	BELT ASSY 48C39 F30 PVOP 78L	EA	1.00	1.00
402989	TR GUIDE ASSY C F30 35-1/4L	EA	0.00	0.00
402990	BR GUIDE ASSY C F30 38-1/8L 27T	EA	0.00	0.00
405280	TR GUIDE ASSY C SP90 15ED 128-7/16L	EA	0.00	0.00
405281	BR GUIDE ASSY C SP90 15ED 132-1/4L	EA	0.00	0.00
40927	KB SPROCKET 50B27F 1-7/16" KW A TF	EA	20.00	20.00
42GNU-9220-QD	C1084797 - Optic-DeviceNet Retroreflective	EA	18.00	18.00
450756	BELT ASSY 26B33 F90 PVOP 157.5L	EA	1.00	1.00
452166	UPPER CHAIN GUIDE KIT/SP16U	EA	0.00	0.00
452167	UPPER CHAIN GUIDE KIT/SP32U	EA	0.00	0.00
452168	UPPER CHAIN GUIDE KIT/SP48U	EA	0.00	0.00
452169	UPPER CHAIN GUIDE KIT/SP64U	EA	0.00	0.00
47A30H18SB	P8090029157V2 - Reducer-Tigear2, Helical, 30:1 Ratio, Hollow Shaft, Rig	EA	1.00	1.00
47A40H18SB	P8090029149V2 - Reducer-Tigear2, Helical, 40:1 Ratio, Hollow Shaft, Rig	EA	1.00	1.00
47TBUSH115	P8060005105V2 - Bushing-Split Taper Lock, 1-15/16" ID, Hollow Shaft	EA	1.00	1.00
47TIERODSPCL	P8090005104V2 - Tie Rod Kit	EA	12.00	12.00
494329-B21	P528876 - Report Server-HP DL380 G6, 2x E5520 2.26 GHz CPUs, 24	EA	1.00	1.00
501717	BELT ASSY 48C39 SP45 SR FR115L6ed	EA	0.00	0.00
506146	SFT SG 23 39 EO10-1/8 NA KO ECC*	EA	3.00	3.00
506300	SFT SG 23 39 EI4 NA KO ECC*	EA	1.00	1.00
506366	SFT SG 23 39 EI11-1/8 NA KO ECC*	EA	1.00	1.00
506999	BELT ASSY 60S57 F37 PVOP 128L	EA	1.00	1.00
507000	TR GUIDE ASSY 60HS57 F37 40T 62-5/8L	EA	0.00	0.00
507001	BR GUIDE ASSY 60HS57 F37 40T 65-3/4L	EA	6.00	6.00
507009	SFT SG 27 57 EI12-3/8 NA KO ECC	EA	1.00	1.00
507121	BELT ASSY 48C39 SP30 SR-FR 79L 12ED	EA	1.00	1.00
507131	BELT ASSY 48C39 SP30 SR-FR 79L 8ED 27T	EA	1.00	1.00
507138	BELT ASSY 48C39 SP45 SR-FR 118L 18ED 27T	EA	1.00	1.00
5302FE	C1088671 - Cable-Multicolor, 4 Coductor, 18AWG, W/Shield, 2 Ft	EA	1.00	1.00
5371-273-003	P8130002200 - Clutch/Brake, 95 ft.lb. Torque, Model UM-210-10-20, 182TC	EA	1.00	1.00
5503-3304-0016	C1092478 - Shaft Encoder-DeviceNet, 16 PPR, 1ft2" Bore	EA	7.00	7.00
553491	BELT ASSY 48C39 F45 PVOP 115.5L	EA	3.00	3.00

553492	BELT ASSY 48C39 F90 27T PVOP 228L	EA	3.00	3.00
557277	UPPER CHAIN GUIDE KIT 4 FT	EA	0.00	0.00
557278	UPPER CHAIN GUIDE KIT 6 FT	EA	0.00	0.00
557279	UPPER CHAIN GUIDE KIT 8 FT	EA	0.00	0.00
557281	UPPER CHAIN GUIDE KIT 12 FT	EA	0.00	0.00
59888	P8041021001V7 - Bearing-Flange, Ball Type, 1-7/16" ID, 2-Bolt	EA	48.00	48.00
59889	P8041021002V7 - Bearing-Flange, Ball Type, 1-11/16" ID, 2-Bolt	EA	13.00	13.00
600219	BR GUIDE ASSY C F90 132-3/4L 27T	EA	0.00	0.00
600221	TR GUIDE ASSY C F90 128-9/16L	EA	0.00	0.00
601114	TR GUIDE ASSY B F90 84-1/2L	EA	0.00	0.00
601115	BR GUIDE ASSY B F90 88-1/2L	EA	0.00	0.00
601177	TR GUIDE ASSY C F45 58-1/2L	EA	0.00	0.00
601178	BR GUIDE ASSY C F45 61-3/4L 27T	EA	3.00	3.00
6020875	Power Supply (VDC)	EA	3.00	3.00
6021164	CAN Cable (0.7 meters)	EA	1.00	1.00
6021165	CAN Cable (3 meters)	EA	1.00	1.00
6027647	Y-Cable to EEPROM (0.4 meters)	EA	1.00	1.00
6036220	Light Tree	EA	2.00	2.00
605931	TR GUIDE ASSY C SP45 12ED 58-13/16L	EA	0.00	0.00
605932	BR GUIDE ASSY C SP45 12ED 62L	EA	0.00	0.00
605980	TR GUIDE ASSY C SP90 24ED 129-11/16L	EA	0.00	0.00
605981	BR GUIDE ASSY C SP90 24ED 133-1/2L	EA	0.00	0.00
606645	BELT ASSY 48C39 F53 PVOP 135L	EA	1.00	1.00
606648	TR GUIDE ASSY C F53 71L	EA	0.00	0.00
606649	BR GUIDE ASSY C F53 74-3/8L 27T	EA	0.00	0.00
606894	TR GUIDE ASSY C SP45 15ED 59-7/16L	EA	0.00	0.00
606895	BR GUIDE ASSY C SP45 15ED 62-9/16L	EA	0.00	0.00
606922	TR GUIDE ASSY C SP45 18ED 60-1/16L	EA	0.00	0.00
606923	BR GUIDE ASSY C SP45 18ED 63-1/4L	EA	0.00	0.00
610367	TR GUIDE ASSY C F37 46-3/16L	EA	0.00	0.00
610368	BR GUIDE ASSY C F37 49-3/16L 27T	EA	0.00	0.00
614192	BELT ASSY 48C39 F37 PVOP 95L	EA	1.00	1.00
6164K22	P84659 - Belt-Lacing, Stainless, Clipper, 12" Strips, 12 Per Box, Unibar #U2	EA	12.00	12.00
620.000613	Servo Control Unit, CU320 (Siemens 6SL3040-0MA00-0AA1)	EA	4.00	4.00
620.000616	Servo Dual Motor Module, 18A	EA	4.00	4.00
620.000617	Servo Smart Line Module, 5kw	EA	4.00	4.00
620.000621	Motor Control Cable, Orange 5m	EA	4.00	4.00
620.000622	Motor Control Cable, Green 5m	EA	4.00	4.00
620.000623	Servo Gearmotor	EA	4.00	4.00
62212	P8041024001V7 - Bearing-Take Up, Ball Type, 1-7/16" ID, Eccentric Lock	EA	35.00	35.00
62302	P8041022001V7 - Bearing-Flange, Ball Type, 3-Bolt, 1-7/16" ID	EA	35.00	35.00

6261K195	P140364 - Chain-Connection Link, RC-60	EA	1.00	1.00
62943	P8041023010V7 - Bearing-Flange, 1-15/16", 4-Bolt	EA	3.00	3.00
630001	ERS SG 23 48C39 CC	EA	6.00	6.00
630008	ERS SG 23 26B33 CC	EA	1.00	1.00
630047	ERS SG 27 60HS57 CC	EA	1.00	1.00
65A	C1089521 - Converter-RS232 to C/L W/External Power Supply	EA	1.00	1.00
650711	SFT SG 23 39 EI10-1/8 NA KO ECC*	EA	7.00	7.00
680.000042	Power Supply, 24V, 5A	EA	4.00	4.00
680.000102	Fan Filter	EA	12.00	12.00
680.00019	MINIATURE RELAY SCREW CONNECTION 6.2MM, 24VDC	EA	8.00	8.00
680.000191	MINIATURE RELAY SCREW CONNECTION 6.2MM, 120VAC	EA	8.00	8.00
68.0020.000-24	Paddle Nose Roller	EA	4.00	4.00
68.0020.000-51	Transition Plate Roller	EA	8.00	8.00
68.0020.000-57	Tie rod, RH thread	EA	8.00	8.00
68.0020.000-58	Tie rod, LH RH thread	EA	4.00	4.00
68.0020.000-99	NUT, 3/4-14 NPSM LEFT HAND THREAD	EA	8.00	8.00
68.0020.001-08	Motorized Pulley, Vertical Belt Drive	EA	4.00	4.00
68.0020.001-35	Paddle Belt	EA	8.00	8.00
68.0020.001-38	NUT, 3/4-14 NPSM RIGHT HAND THREAD	EA	8.00	8.00
68542	P8041122001V7 - Bearing-Flange, Ball Type, 1-7/16" ID, 3Bolt, Sealed fo	EA	2.00	2.00
69743	C1078568 - ComputerPeripheral-Modem Serial Cable DB9F to DB25F, Stra	EA	1.00	1.00
700DC-P400-Z24	C1052646 - Relay-Control, 4 Pole, 600V , 24VDC Coil	EA	13.00	13.00
700-HK36A1	RELAY FOR FIRE DOOR	EA	6.00	6.00
700-P400-A1	C1016732 - Relay-Control, 120VAC, 4 Pole, 600V	EA	5.00	5.00
701495	TR GUIDE ASSY C SP30 8ED 35-3/16L	EA	0.00	0.00
701496	BR GUIDE ASSY C SP30 8ED 38-3/16L	EA	0.00	0.00
7023047	Photoeye WL2000-B5300	EA	3.00	3.00
703049	TR GUIDE ASSY C SP45 16ED 59-5/8L	EA	0.00	0.00
703050	BR GUIDE ASSY C SP45 16ED 62-13/16L	EA	0.00	0.00
7102804	Tachometers	EA	3.00	3.00
710611	BELT ASSY 48C39 SP45 SR-FR 116L 15ED	EA	1.00	1.00
715072	BELT ASSY 48C39 SP90 SR FR 233L 36ED 27T	EA	1.00	1.00
715178	BELT ASSY 48C39 SP90 SR-FR 230L 24ED *	EA	0.00	0.00
715476	SFT SG 23 33 EI10-1/8 NA KO ECC*	EA	1.00	1.00
753050	TR GUIDE ASSY C SP90 12ED 128-3/16L	EA	0.00	0.00
753051	BR GUIDE ASSY C SP90 12ED 132L	EA	0.00	0.00
753605	TR GUIDE ASSY C SP45 6ED 58-1/16L	EA	0.00	0.00
753606	BR GUIDE ASSY C SP45 6ED 61-1/4L	EA	0.00	0.00
753768	TR GUIDE ASSY C SP90 36ED 132-1/4L	EA	0.00	0.00
753769	BR GUIDE ASSY C SP90 36ED 136L	EA	0.00	0.00
800T-A1D1G	C1016547 - Switch-Pushbutton, Momentary, Flush, Green	EA	21.00	21.00

800T-A1D1V	C1100482 - Switch-Pushbutton, Momentary Contact, Red Flush Head	EA	2.00	2.00
800T-A2D1	C1019847 - Switch-Pushbutton, Momentary, Flush, Black	EA	9.00	9.00
800T-A9D1V	C1100481 - Switch-Pushbutton, Momentary Contact, Yellow Flush Head	EA	1.00	1.00
800T-FXQH24RA1	C1061924 - Switch-Pushbutton, push-pull, Mushroom Head, Red	EA	22.00	22.00
800T-H2A	C1007105 - Switch-Selector, 2-Position	EA	4.00	4.00
800T-H2D1	C1007714 - Switch-Selector, 2-Position	EA	2.00	2.00
800T-N314	C1039294 - Switch-Selector, Padlocking Attachment	EA	22.00	22.00
800T-QAH24A	C1092441 - Switch-Pushbutton, Illuminated, Momentary, Amber	EA	18.00	18.00
80001	RL Photo Eyes (14151RL14)	EA	4.00	4.00
80002	RD Photo Eyes (14151RD14)	EA	3.00	3.00
80005	3in Round Reflector	EA	5.00	5.00
80007	1 1/4in Square Reflector	EA	2.00	2.00
802T-AP	C1010343 - Switch-Limit Rotary Lever	EA	4.00	4.00
802T-W2B	C1022099 - Switch-Limit Arm	EA	4.00	4.00
855E-LL24A	LED AMBER LAMP FOR STACK LIGHTS	EA	2.00	2.00
855TC-DL1B24V5A1	C1088602 - Stacklight-Amber LED, Surface Mount, DeviceNet	EA	5.00	5.00
855TC-DL1B24Y3Y7Y4	C1098650 - Light-Stack, DeviceNet, Black 1/2" NPT Surface Mount, Amber	EA	1.00	1.00
868934	BELT ASSY 48C39 SP90 SR FR 228L 15ED	EA	1.00	1.00
871A-TS5-NM3	C1084786 - Receptacle-DeviceNet, Male	EA	54.00	54.00
871A-TS5-N3	C1084944 - Receptacle-DeviceNet, Female	EA	54.00	54.00
874999	BELT ASSY 48C39 SP45 SR-FR 116L 12ED 27T	EA	1.00	1.00
875004	BELT ASSY 48C39 SP90 SR FR 227L 12ED 27T	EA	1.00	1.00
875213	BELT ASSY 48C39 SP90 SR-FR 230L 24ED 27T	EA	1.00	1.00
877616	BELT ASSY 48C39 SP45 SR-FR 117L 16ED 27T	EA	1.00	1.00
889N-F4AFC-6F	C1088659 - Cable-Cordset, 4 Conductor, 16AWG, 4-Pin Mini Female Conn	EA	25.00	25.00
90000	2 Amp Fuse	EA	4.00	4.00
90001	3 Amp Fuse	EA	4.00	4.00
90004	Relays	EA	4.00	4.00
90480	Control Panels	EA	1.00	1.00
92-39	Photo-Eye Reflector	EA	42.00	42.00

## Attachment G

### Sample Passenger Loading Bridge and Baggage Handling System Preventive Maintenance List

Contractor shall list all detailed preventive maintenance tasks required to fully maintain and repair all equipment associated with the Passenger Loading Bridge And Baggage Handling System under the Attachment A, Scope of Work,.

***Contractor will provide (within 30 days of Contract award) and list all applicable daily, weekly, quarterly, semi-annually, annually, and 5-year preventive maintenance tasks.***

A sample standard for the implementation of Preventive Maintenance Tasks is listed below.

#### **BAGGAGE CLAIM EQUIPMENT ELECTRICAL ANNUAL PM**

##### **SPECIAL INSTRUCTIONS:**

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
  2. SCHEDULE SHUTDOWN WITH OPERATIONS CONTROL CENTER.
  3. Contract ADMINISTERED BY: JWA
- Contract HELD BY: TBD  
CONTACT PERSON: TBD

**WARNING:** ANY INSPECTION OF SERVICING OF THE ELECTRICAL COMPONENTS OR CONTROL PANEL SHOULD BE DONE BY A QUALIFIED ELECTRICIAN. CONTROL PANELS CONTAIN HIGH VOLTAGE AND CAUTION SHOULD BE OBSERVED WHEN INSPECTING OR SERVICING THESE PANELS.

##### **TOOLS & MATERIALS:**

1. STANDARD TOOLS- BASIC

##### **WORK INSTRUCTIONS:**

##### **CONTAMINATION**

1. CHECK CONTROL EQUIPMENT FOR SIGNS OF DUST, DIRT, MOISTURE OR OTHER CONTAMINATION. IF CONTAMINATION EXISTS THIS WOULD INDICATE IMPROPER SEALING OF ENCLOSURE OR OPENINGS OR INCORRECT OPERATING PROCEDURE. THE CAUSE SHOULD BE DETERMINED AND ELIMINATED.
2. DIRTY, WET OR CONTAMINATED PARTS SHOULD BE REPLACED OR CLEANED BY VACUUMING OR WIPING.

##### **OPERATING MECHANISMS**

3. CHECK FOR PROPER FUNCTIONING AND FREEDOM FROM STICKING OR BINDING.
4. REPLACE ANY BROKEN, DEFORMED OR BADLY WORN PARTS OR ASSEMBLIES.
5. EXAMINE MECHANISMS FOR SECURITY AND RETIGHTEN ANY LOOSE FASTENERS.
6. LUBRICATE ONLY IN THE MANNER SUGGESTED BY THE MANUFACTURER SINCE MOST MECHANISMS DO NOT REQUIRE LUBRICATION OTHER THAN THAT DONE BY THE MANUFACTURER.

##### **CONTACTS**

7. CHECK CONTACTS FOR EXCESSIVE WEAR AND DIRT ACCUMULATION; DISCOLORATION OR SLIGHT PITTING IS NOT HARMFUL.

**CAUTION:** NEVER FILE OR DRESS CONTACTS. DO NOT USE SPRAY CLEANERS ON CONTACTS AS THIS CAN CAUSE A MALFUNCTION OF THE EQUIPMENT.

8. REPLACE CONTACTS IN COMPLETE SETS IF SILVER PLATING IS BADLY WORN.  
TERMINALS

9. ( ) CHECK TERMINAL FOR SECURITY AND TIGHTEN LOOSE CONNECTIONS.

CAUTION: LOOSE CONNECTIONS CAN CAUSE OVERHEATING AND LEAD TO EQUIPMENT MALFUNCTION OR FAILURE.

10. REPLACE ANY PARTS OR WIRING DAMAGED BY OVERHEATING OR CORROSION.

#### COILS

11. CHECK COILS FOR EVIDENCE OF OVERHEATING (CRACKS, MELTED OR BURNED INSULATION). REPLACE COIL IF ANY EVIDENCE IS PRESENT.

12. CHECK FOR OVER AND UNDER VOLTAGE CONDITIONS TO PREVENT PREMATURE FAILURE OF NEW COILS.

13. CLEAN ANY RESIDUE OF DAMAGED COILS FROM OTHER PARTS OF THE DEVICE OR REPLACE SUCH PARTS OR DEVICES AS NECESSARY.

#### PILOT LIGHTS

14. CHECK AND REPLACE ANY BURNED OUT LAMPS OR DAMAGED LENSES.

#### CHECKOUT

15. AFTER MAINTENANCE OR REPAIR, TEST THE CONTROL SYSTEM FOR PROPER FUNCTION UNDER CONTROLLED CONDITIONS TO AVOID HAZARDS IN THE EVENT OF A MALFUNCTION.

### **BAGGAGE CAROUSELS SEMI-ANNUAL OR 3000 HOUR PM**

EQUIPMENT: CAROUSELS

#### SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

#### TOOLS & MATERIALS:

1. Contractor's DISCRETION

2. #2 CONSISTENCY LITHIUM BASE GREASE

3. SAE 30 MOTOR OIL

4. ALLEN WRENCHES

#### WORK INSTRUCTIONS:

1. PALLET DRIVE:

**\*\*WARNING\*\***

BE SURE THAT THE POWER IS TURNED OFF AT THE MAIN ELECTRICAL PANEL DISCONNECT SWITCH WHEN SERVICING THE UNIT BELOW THE TREAD SURFACE.

2. REMOVE ONE SECTION OF THE TOP TRIM AND THREE PALLETS, IN THE LINE DRIVE SECTION. EACH PALLET IS SECURED TO THE LINEAGE, BY FOUR SCREWS, THROUGH THE TOP SURFACE OF THE PALLET. SERVICE AND INSPECT THE FOLLOWING ITEMS.

**\*\*CAUTION\*\***

DO NOT OPERATE THE UNIT WITH MORE THAN TWO CONSECUTIVE PALLETS REMOVED; SUCH OPERATION WOULD ALLOW THE LINKAGE TO DROP AND NOT PROPERLY ENGAGE THE DRIVE CHAIN.

### 3. ELECTRIC MOTOR:

A. INSPECT MOUNTING FOR TIGHTNESS.

B. LUBRICATE MOTOR BEARINGS, AT THE INTERVALS SHOWN ON THE SERVICE FREQUENCY CHART.

C. A #2 CONSISTENCY LITHIUM BASE GREASE SHOULD BE USED TO LUBRICATE THE BEARINGS. CLEAN THE TIPS OF THE FITTINGS BEFORE APPLYING THE GREASE GUN. USE 1 OR 2 FULL STROKES OF GREASE ON MOTORS HAVING GREASE DRAIN PLUGS, REMOVE THE DRAIN PLUG AND OPERATE THE MOTOR FOR 20 MINUTES BEFORE REPLACING THE PLUG.

#### \*\*CAUTION\*\*

KEEP THE GREASE CLEAN. LUBRICATE MOTORS AT A STANDSTILL. REMOVE AND REPLACE DRAIN PLUGS WITH MOTOR AT A STANDSTILL. DO NOT MIX PETROLEUM GREASE AND SILICONE GREASE IN THE MOTOR BEARINGS.

### 4. HIGH SPEED MOTOR COUPLING- WOODS SUREFLEX OR LOVEJOY:

A. INSPECT SET SCREWS FOR TIGHTNESS.

B. INSPECT RUBBER INSERTS FOR SIGNS OF DETERIORATION.

### 5. DRIVE CHAIN ASSEMBLY -CAROUSEL:

A. INSPECT CAM DRIVE CHAIN FOR FAILURE OF LINKS OR COTTER PINGS.

1. CLEAN AND LUBRICATE AS NEEDED.

B. CLEAN DRIVE CHAIN AND CHAIN GUIDE BARS WITH SOLVENT, TWICE YEARLY OR AT TIME OF PILLOW BLOCKS LUBRICATION.

C. INSPECT DRIVE LUGS FOR TIGHTNESS AND UNIFORM WEAR.

D. INSPECT DRIVE CHAIN FOR TIGHTNESS AND ALIGNMENT. ADJUST CHAIN TAKE-UP IF NECESSARY.

#### \*\*NOTE\*\*

FOR PROPER CHAIN TIGHTNESS, A LOAD OF 15 POUNDS APPLIED PERPENDICULAR TO THE LOWER SPAN, MIDWAY BETWEEN THE SPROCKET CENTER LINE, SHOULD DEFLECT THE CHAIN 1/2 INCH.

E. CHECK RUBBER BUMPER ASSEMBLY FOR MOUNTING SECURITY AND WEAR. REPAIR OR REPLACE AS NEEDED.

1. REPLACE MISSING SCREWS AND WING NUTS AT BASE OF PALLET ASSEMBLY.

F. INSPECT POSITIONING OF LEVELING PADS. RE-INSTALL AND ADJUST AS NEEDED.

### 6. CAROUSEL:

A. INSPECT PALLET ASSEMBLY- GENERAL CONDITION, TIE CHAIN, ADJUSTMENT, CONDITION OF WHEELS AND FASTENER SECURITY. REPLACE, REPAIR OR ADJUST AS REQUIRED.

B. BUMPER ASSEMBLY-GENERAL CONDITION AND FASTENER SECURITY. REPLACE OR REPAIR AS REQUIRED.

1. REPLACE MISSING SCREWS AND WING NUTS AT BASE OF PALLET ASSEMBLY AS NEEDED.

C. INSPECT LEVELING PADS. REPLACE OR ADJUST AS REQUIRED.

D. CHECK ALL TRIM AND PALLETS FOR SECURITY AND DIRT. TIGHTEN ALL FASTENERS AND CLEAN ALL PALLETS AND TRIM.

E. REINSTALL ANY TRIM WHICH WAS REMOVED TO PERFORM THE SERVICE.

### 7. ELECTRICAL COMPONENTS:

A. CHECK FOR PROPER OPERATION AND SECURITY OF RELAYS, STARTERS, ETC. REPLACE OR TIGHTEN AS REQUIRED.

B. CHECK TERMINALS FOR SECURITY. TIGHTEN ALL LOOSE CONNECTIONS.

C. CHECK CONTACTS FOR SIGNS OF WEAR. REPLACE OR CLEAN AS REQUIRED.

**D. CAROUSEL SOFT STARTS:**

1. INSURE SECURITY OF ALL SCREWS AND BOLTS ON OR WITHIN THE UNIT.
  2. TAKE OPERATING CURRENT LOAD READINGS AT L1, L2 AND L3 IN MCP PANEL. LOG ON FORM IN MCP PANEL AND ON WORK ORDER. REPLACE OR REPAIR AS NEEDED.
- E. VACUUM OR WIPE OUT ANY DIRT, DUST OR DEBRIS UNDERNEATH THE CAROUSELS.
- F. CHECK OPERATION OF ALL EMERGENCY STOP SWITCHES.

**BAGGAGE CAROUSELS MONTHLY PM**

EQUIPMENT: CAROUSELS

**SPECIAL INSTRUCTIONS:**

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
  2. Contract ADMINISTERED BY: JWA
- Contract HELD BY: TBD
- CONTACT PERSON: TBD

**TOOLS & MATERIALS:**

1. Contractor's DISCRETION IN ADDITION.

**WORK INSTRUCTIONS:****1. CAROUSELS**

- A. INSPECT MOTOR - GENERAL CONDITION AND MOUNTING SECURITY. TIGHTEN AS NEEDED.
- B. INSPECT REDUCER -GENERAL CONDITION AND MOUNTING SECURITY. TIGHTEN BOLTS.
- C. INSPECT MOTOR DRIVE CHAIN AND SPROCKETS FOR CONDITION, TENSION, ALIGNMENT AND LUBRICATION. REPLACE, ALIGN, TENSION OR LUBE AS NEEDED.
- D. INSPECT CAM DRIVE CHAIN AND ASSOCIATED SHAFTS FOR CONDITION, TENSION, ALIGNMENT, WEAR AND LUBRICATION. REPLACE, ALIGN, TENSION OR LUBE AS NEEDED.
  1. INSPECT PILLOW BLOCK BEARINGS FOR LUBRICATION, SECURITY AND WEAR. TIGHTEN, REPLACE OR LUBE AS NEEDED.
- E. INSPECT DRIVE CAMS FOR CONDITION, MOUNTING SECURITY AND CAM CHAIN ENGAGEMENT. REPLACE, REPAIR, TIGHTEN AS NEEDED.
- F. INSPECT NYLON STRAP HOLDING TOP OF PALLETS FOR WEAR AND MOUNTING SECURITY. REPAIR OR REPLACE AS NEEDED.
- G. CHECK CAROUSEL FOR LOOSE PALLET ASSEMBLIES AND FOR GENERAL CONDITION OF EXTERIOR TRIM. REPAIR OR TIGHTEN AS NEEDED.
- H. INSPECT CONDITION OF FINGERGUARD. REPAIR OR REPLACE AS NEEDED.
- I. LUBE CAM TRACK.
- J. CHECK OIL QUANTITY OF GEARBOX. FILL AS NEEDED.

**CAROUSELS WEEKLY PM**

EQUIPMENT: CAROUSELS

**SPECIAL INSTRUCTIONS:**

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
  2. Contract ADMINISTERED BY: JWA
- Contract HELD BY: TBD
- CONTACT PERSON: TBD

**TOOLS & MATERIALS:**

1. Contractor's DISCRETION.

**WORK INSTRUCTIONS:****1. CAROUSELS:**



- A. INSPECT FINGER GUARD ON CAROUSELS, REPLACE AS NEEDED.
- B. LISTEN FOR ABNORMAL NOISE FROM DRIVE SECTION AND AROUND WHEEL TRACKS. LUBE OR REPAIR AS NEEDED.
- C. INSURE START-UP WARNING LIGHTS, ALARMS AND OPERATING LIGHTS ARE OPERATIONAL.

## **BHS TICKET COUNTERS/CURBSIDE BELT CONVEYORS MONTHLY PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

### **SPECIAL INSTRUCTIONS:**

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"  
DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.
  2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
  3. Contract ADMINISTERED BY: JWA  
Contract HELD BY: TBD  
CONTACTPERSON: TBD
- WORK INSTRUCTIONS:

1. PULLEYS AND ROLLERS  
VISUALLY INSPECT THE PULLEY AND ROLLERS FOR ROTATION AND SURFACE DAMAGE.  
INSPECT PULLEY AND ROLLER ASSEMBLIES FOR SHAFT AND BEARING TIGHTNESS OF ATTACHMENT.

2. BEARINGS  
INSPECT BEARING FOR WEAR OR BAD SEALS. IF NECESSARY, REPLACE BEARINGS.  
CHECK FOR HIGH TEMPERATURE AND EXCESSIVE NOISE. IF NECESSARY, REPLACE BEARINGS.  
INSPECT FOR TIGHTNESS.  
INSPECT BEARING MOUNTING SHIMS FOR CORRECT ALIGNMENT.

3. MOTORS  
INSPECT THE MOTOR MOUNTING FOR TIGHTNESS.  
CHECK AND TIGHTEN THE SET SCREWS ON THE MOTOR SHEAVE.  
CHECK MOTOR BEARINGS FOR PROPER LUBRICATION AND DAMAGE. IF DEFECTIVE, REPLACE.  
ON MOTORS HAVING GREASE DRAIN PLUG AND OPERATE MOTOR FOR TWENTY MINUTES BEFORE REPLACING THE DRAIN PLUG.

### **"CAUTION"**

KEEP GREASE CLEAN. LUBRICATE MOTORS AT A STANDSTILL. DO NOT MIX PETROLEUM GREASE AND SILICONE GREASE IN MOTOR BEARINGS.

4. SPEED REDUCERS  
INSPECT MOUNTING BOLTS FOR TIGHTNESS.  
CHECK FOR HIGH TEMPERATURE. OUTSIDE HOUSING SHOULD NOT EXCEED 200 DEGREE FAHRENHEIT.  
CHECK ALL TIGHTEN THE SET SCREWS ON THE REDUCER SHEAVE.  
CLEAN GREASE FITTING.  
CHECK AND TIGHTEN ALL DRAIN PLUGS.  
CHECK AND REALIGN THE REDUCER SHEAVE. ( ) CHECK FOR LUBRICANT LEAK

INSPECT TORQUE ARM MOUNTING FOR TIGHTNESS.  
 CHECK REDUCER FOR EXCESSIVE TEMPERATURE OR UNUSUAL NOISE.  
 INSPECT REDUCER HOUSING FOR EXCESSIVE DUST AND DIRT AND CLEAN, IF NECESSARY.

#### 5. CONVEYOR FRAME

INSPECT MOUNTING BOLTS FOR TIGHTNESS.

#### 6. CONVEYOR GUARD

INSPECT GUARDS AND BED FASTENERS FOR PROPER POSITION, COMPLETE FUNCTIONALITY, AND TIGHTNESS OF MOUNTING BOLTS.

INSPECT FOR SECURITY AND CHECK CONVEYOR BED FOR ALIGNMENT.

#### 7. V-BELTS/TIMING BELTS AND SHEAVES/SPROCKETS

INSPECT THE SHEAVES FOR TIGHTNESS AND CONDITION OF GROOVE. IF GROOVE IS BADLY SCORED, REPLACE THE SHEAVE. INSPECT SPROCKETS FOR BROKEN TEETH.

INSPECT ALL SHEAVES AND SPROCKETS FOR ALIGNMENT; THIS MAY BE DONE BY PLACING A STRAIGHT EDGE ACROSS BOTH SHEAVES OR SPROCKETS AS ILLUSTRATED IN FIGURE MS-1. THE STRAIGHT EDGE SHOULD LAY FLAT AGAINST THE SURFACE OF BOTH SHEAVES OR SPROCKETS. INSPECT V-BELTS OR TIMING BELTS FOR CRACKS, BREAKS, MISSING TEETH OR OTHER SIGNS OF DETERIORATION. REPLACE AS NECESSARY.

CHECK V-BELTS OR TIMING BELTS FOR PROPER TENSION.

#### 8. BELT CURVE BELTS

CHECK BELT TENSION AND BELT RUN. ADJUST AS NECESSARY. (SEE APPENDIX D-BELT TENSIONING DIAGRAM).

CHECK GEAR MOTOR OR MOTOR/REDUCE FOR NOISE. REPLACE OR ADJUST AS NEEDED. (CHECK SURFACE OF PULLEYS. REPLACE AS NECESSARY.

9. COMPLETE TABLE BELOW TO DOCUMENT WORK PERFORMED. DATE TECHNICIAN HOURS

### **HIGH SPEED DIVERTER WEEKLY PM**

EQUIPMENT: BAGGAGE HANDLING HIGH SPEED DIVERTOR

SPECIAL INSTRUCTIONS: "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THE MAINTENANCE MANUAL.

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

WORK INSTRUCTIONS:

1. PADDLE ASSEMBLY BELT

VISUALLY INSPECT FOR TEARS/FRAYING/TENSION

### **HIGH SPEED DIVERTER MONTHLY PM**

EQUIPMENT: BAGGAGE HANDLING HIGH SPEED DIVERTOR

SPECIAL INSTRUCTIONS: "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THE MAINTENANCE MANUAL.

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD  
CONTACT PERSON: TBD

WORK INSTRUCTIONS:

1. HARDWARE

INSPECT MOUNTING FOR TIGHTNESS. IF NECESSARY, REPLACE BEARINGS.

2. SERVO GEARMOTOR

VISUALLY INSPECT FOR PROPER OPERATING CONDITION

INSPECT MOUNTING HARDWARE FOR TIGHTNESS.

VISUALLY INSPECT WIRING FOR DAMAGED INSULATION, LOOSE CONNECTIONS, OR EVIDENCE OF ARCING.

3. TIE ROD ASSEMBLY ROD ENDS

VISUALLY INSPECT MOUNTING HARDWARE FOR TIGHTNESS

4. ROLLERS

INSPECT FOR NOISE OR EXCESSIVE HEAT

VISUALLY INSPECT MOUNTING BRACKET HARDWARE FOR TIGHTNESS

5. DRIVE PULLEY

VISUALLY INSPECT MOUNTING HARDWARE FOR TIGHTNESS

VISUALLY INSPECT PULLEY FOR CORRECT MOUNTING POSITION

INSPECT FOR NOISE OR EXCESSIVE HEAT

6. PADDLE ASSEMBLY

VISUALLY INSPECT MOUNTING HARDWARE FOR TIGHTNESS

VISUALLY INSPECT THE PADDLE ALIGNMENT IN THE ZERO AND EXTENDED POSITIONS.

7. PADDLE ASSEMBLY BELT

VISUALLY INSPECT THE BELT TRACKING AND RE-TRACK IF NECESSARY

8. PADDLE PIVOT BEARINGS (DRIVE ASSEMBLY)

VISUALLY INSPECT MOUNTING HARDWARE FOR TIGHTNESS

9. SERVO GEARMOTOR GEAR

VISUALLY INSPECT WIRING FOR DAMAGED AND INSULATION, LOOSE CONNECTIONS, OR EVIDENCE OF ARCING

10. DIVERTOR CONTROL PANEL AIR FILTERS

CLEAN OR REPLACE INTAKE AND EXHAUST AIR FILTERS

11. DIRECTOR CONTROL PANEL AND COMPONENTS

VISUALLY INSPECT

NOTE ALSO VISUALLY INSPECT ALL HSDII COMPONENTS FOR TENSION, TRACKING, WEAR, MISSING HARDWARE, TIGHTNESS, OR OTHER SIGNS OF IMPROPER OPERATION.

SEE OPERATIONAL TEST CHECKLIST TO BE PERFORMED ON A MONTHLY BASIS.

**BHS BELT CONVEYORS EXPLOSIVE DETECTION/MAINLINE QUARTERLY PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

#### WORK INSTRUCTIONS:

##### 1. BAGGAGE SNAG POINTS

CHECK THE CONVEYOR FOR POINTS ALONG THE BELT WHERE BAGGAGE MIGHT SNAG, AND CORRECT THESE SITUATIONS.

##### 2. GUARDS

MAKE SURE ALL GUARDS ARE IN PLACE AND SAFETY INTERLOCKS ARE OPERATIONAL.

##### 3. BEARINGS FLANGE

GREASE FITTINGS. USE SHELL ALVANIA #2 FOR LUBRICATION.

##### 3. MOTOR

GREASE FITTINGS. USE SHELL ALVANIA #2 FOR LUBRICATION.

##### 5. REDUCER

FILL PLUG. USE SHELL TURBO 100.

##### 6. CHAINS & SPROCKET

SET APPLICATION TO MANUAL. USE MOBIL SHC 630.

##### 7. FLANGE BEARING

GREASE FITTINGS. USE SHELL ALVANIA #2.

##### 8. PULLEY TRAIL

VISUALLY INSPECT THE TRAIL PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

##### 9. PULLEY TU

VISUALLY INSPECT THE TAKE UP PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

##### 10. PULLEY DRIVE

VISUALLY INSPECT THE DRIVE PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

##### 11. PULLEY SNUB

VISUALLY INSPECT THE SNUB PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

##### 12. PULLEY RETURN ROLLER

VISUALLY INSPECT THE RETURN ROLLER PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

##### 13. HARDWARE TIGHTNESS

INSPECT ALL CONVEYOR HARDWARE FOR TIGHTNESS. TIGHTEN ALL NUTS AND BOLTS AS NECESSARY.

14. CHAIN/SPROCKET ALIGNMENT

CHECK CHAIN AND SPROCKET ALIGNMENT, AND CORRECT IF NECESSARY.

15. V-BELT SHEAVE ALIGNMENT

(VISUALLY CHECK V-BELT SHEAVE ALIGNMENT. REALIGN AS NECESSARY.

16. V-BELT TENSION

CHECK TENSION ON V-BELT AND ADJUST AS NECESSARY.

17. V-BELT SHEAVE WEAR

CHECK V-BELT SHEAVE FOR TIGHTNESS AND CONDITION OF GROOVE. IF GROOVE IS BADLY SCORED, REPLACE THE SHEAVE.

18. PULLEY HEAD

VISUALLY INSPECT THE HEAD PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

19. BELT TRACKING

VISUALLY INSPECT BELT FOR SIGNS OF TRACKING PROBLEMS. CORRECT TRACKING AS NECESSARY.

20. BELT TENSION

ENSURE THAT BELT TENSION IS CORRECT. RE-TENSION BELT AS NECESSARY.

21. BELT LACING

VISUALLY INSPECT BELT LACING FOR SECURITY, AND THAT LACING IS TIGHT.

22. BEARING LUBRICATION

ENSURE THAT BEARINGS ARE PROPERLY LUBRICATED.

**BHS MOTOR CONTROL PANELS QUARTERLY PM EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS**

SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

WORK INSTRUCTIONS:

1. ELECTRICAL CONNECTIONS

INSPECT ALL ELECTRICAL CONNECTIONS FOR FRAYED OR DAMAGED WIRES, LOOSE CONNECTIONS, OR BREAKS IN INSULATION.

**BELT CONVEYORS EXPLOSIVE DETECTION/MAINLINE SEMI-ANNUAL PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

**SPECIAL INSTRUCTIONS:**

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNING AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

**WORK INSTRUCTIONS:****1. GENERAL HOUSEKEEPING**

PERFORM GENERAL HOUSEKEEPING FUNCTIONS AROUND THE BELT CONVEYOR. CLEAN UP ALL LUBRICANT SPILLS AND ANY DEBRIS THAT IS IN THE AREA

**2. REDUCER OIL/GREASE LEVEL**

CHECK OIL/GREASE LEVELS IN REDUCER. FILL AS NECESSARY.

**3. REDUCER TEMPERATURE**

CAREFULLY PLACE HAND NEAR REDUCER AND CHECK FOR EXCESSIVE HEAT. ADD LUBRICATION AS REQUIRED.

**4. REDUCER NOISE**

LISTEN FOR UNUSUAL REDUCER NOISE. REPAIR OR REPLACE MOTOR AS NECESSARY.

**5. MOTOR NOISE**

LISTEN FOR UNUSUAL MOTOR NOISE. REPAIR OR REPLACE MOTOR AS NECESSARY.

**BHS MOTOR CONTROL PANELS SEMI-ANNUAL PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM MOTOR CONTROL PANELS

**SPECIAL INSTRUCTIONS:**

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACTPERSON: TBD

**WORK INSTRUCTIONS:**

1. ELECTRICAL PHOTOCELL ALIGNMENT

CHECK TO ENSURE THAT THE PHOTOCELLS ARE PROPERLY ALIGNED. REALIGN AS NECESSARY.

2. MOTOR CONTROL PANEL LAMPS

ENSURE THAT ALL CONTROL PANEL LAMPS ARE FUNCTIONAL. USE PUSH TO TEST FUNCTION. REPLACE LAMPS AS NECESSARY.

3. MOTOR CONTROL PANEL LOOSE

CHECK ALL CONNECTIONS IN MOTOR CONTROL PANEL. TIGHTEN CONNECTIONS AS NECESSARY.

4. MOTOR CONTROL PANEL CLEANLINESS

WIPE ALL GREASE, OIL OR OTHER CONTAMINANTS FROM MOTOR CONTROL PANEL.

5. MOTOR CONTROL PANEL SECURITY

ENSURE THAT CONTROL PANEL IS SECURE AND THAT LOCKING FUNCTIONS ARE OPERATIVE.

**HIGH SPEED DIVERTER SEMI-ANNUAL PM**

EQUIPMENT: BAGGAGE HANDLING HIGH SPEED DIVERTOR

SPECIAL INSTRUCTIONS: "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THE MAINTENANCE MANUAL.

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

WORK INSTRUCTIONS:

1. SHAFT LOCKING DEVICE

INSPECT AND TIGHTEN AS NECESSARY

**HIGH SPEED DIVERTER ANNUAL PM**

EQUIPMENT: BAGGAGE HANDLING HIGH SPEED DIVERTOR

SPECIAL INSTRUCTIONS: "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THE MAINTENANCE MANUAL.

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

WORK INSTRUCTIONS:

1. SERVO GEARMOTOR

CLEAN OUTSIDE SURFACE

2. DIVERTOR CONTROL PANEL AND COMPONENTS

CLEAN

## **HIGH SPEED DIVERTER 2 YEAR PM**

EQUIPMENT: BAGGAGE HANDLING HIGH SPEED DIVERTOR

SPECIAL INSTRUCTIONS: "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THE MAINTENANCE MANUAL.

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

WORK INSTRUCTIONS:

1. SERVO GEARMOTOR

REPLACE OIL

## **REPLACE PLC BACK-UP BATTERIES SEMI-ANNUAL PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM MOTOR CONTROL PANELS

SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNING AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

WORK INSTRUCTIONS:

1. REPLACE ALL PLC BACK-UP BATTERIES.

## **BHS INBOUND/OVERSIZE CONVEYORS MONTHLY PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

WORK INSTRUCTIONS:



### 1. PULLEYS AND ROLLERS

VISUALLY INSPECT THE PULLEY AND ROLLERS FOR ROTATION AND SURFACE DAMAGE.  
(INSPECT PULLEY AND ROLLER ASSEMBLIES FOR SHAFT AND BEARING TIGHTNESS OF ATTACHMENT.

### 2. BEARINGS

INSPECT BEARING FOR WEAR OR BAD SEALS. IF NECESSARY,

REPLACE BEARINGS.

CHECK FOR HIGH TEMPERATURE AND EXCESSIVE NOISE. IF NECESSARY, REPLACE BEARINGS.  
INSPECT FOR TIGHTNESS.

INSPECT BEARING MOUNTING SHIMS FOR CORRECT ALIGNMENT.

### 3. MOTORS

INSPECT THE MOTOR MOUNTING FOR TIGHTNESS.

CHECK AND TIGHTEN THE SET SCREWS ON THE MOTOR SHEAVE.

CHECK MOTOR BEARINGS FOR PROPER LUBRICATION AND DAMAGE. IF DEFECTIVE, REPLACE.  
ON MOTORS HAVING GREASE DRAIN PLUG AND OPERATE MOTOR FOR TWENTY MINUTES BEFORE REPLACING THE DRAIN PLUG.

### "CAUTION"

KEEP GREASE CLEAN. LUBRICATE MOTORS AT A STANDSTILL.

DO NOT MIX PETROLEUM GREASE AND SILICONE GREASE IN MOTOR BEARINGS.

### 4. SPEED REDUCERS

INSPECT MOUNTING BOLTS FOR TIGHTNESS.

CHECK FOR HIGH TEMPERATURE. OUTSIDE HOUSING SHOULD NOT EXCEED 200 DEGREE FAHRENHEIT.

CHECK ALL TIGHTEN THE SET SCREWS ON THE REDUCER SHEAVE.

CLEAN GREASE FITTING.

CHECK AND TIGHTEN ALL DRAIN PLUGS.

CHECK AND REALIGN THE REDUCER SHEAVE.

CHECK FOR LUBRICANT LEAK

INSPECT TORQUE ARM MOUNTING FOR TIGHTNESS.

CHECK REDUCER FOR EXCESSIVE TEMPERATURE OR UNUSUAL NOISE.

INSPECT REDUCER HOUSING FOR EXCESSIVE DUST AND DIRT AND CLEAN, IF NECESSARY.

### 5. CONVEYOR FRAME

INSPECT MOUNTING BOLTS FOR TIGHTNESS.

### 6. CONVEYOR GUARD

INSPECT GUARDS AND BED FASTENERS FOR PROPER POSITION, COMPLETE FUNCTIONALITY, AND TIGHTNESS OF MOUNTING BOLTS.

INSPECT FOR SECURITY AND CHECK CONVEYOR BED FOR ALIGNMENT.

### 7. V-BELTS/TIMING BELTS AND SHEAVES/SPROCKETS

INSPECT THE SHEAVES FOR TIGHTNESS AND CONDITION OF GROOVE. IF GROOVE IS BADLY SCORED, REPLACE THE SHEAVE. INSPECT SPROCKETS FOR BROKEN TEETH.

INSPECT ALL SHEAVES AND SPROCKETS FOR ALIGNMENT; THIS MAY BE DONE BY PLACING A STRAIGHT EDGE ACROSS BOTH SHEAVES OR SPROCKETS AS ILLUSTRATED IN FIGURE MS-1. THE STRAIGHT EDGE SHOULD LAY FLAT AGAINST THE SURFACE OF BOTH SHEAVES OR SPROCKETS. INSPECT V-BELTS OR TIMING BELTS FOR CRACKS, BREAKS, MISSING TEETH OR OTHER SIGNS OF DETERIORATION. REPLACE AS NECESSARY.

CHECK V-BELTS OR TIMING BELTS FOR PROPER TENSION.

### 8. BELT CURVE BELTS

CHECK BELT TENSION AND BELT RUN. ADJUST AS NECESSARY. (SEE APPENDIX D-BELT TENSIONING DIAGRAM).  
 CHECK GEAR MOTOR OR MOTOR/REDUCER FOR NOISE. REPLACE OR ADJUST AS NEEDED.  
 CHECK SURFACE OF PULLEYS. REPLACE AS NECESSARY.

## **BHS EXPLOSIVE DETECTION/MAIN LINE BELT CONVEYORS MONTHLY PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

### **SPECIAL INSTRUCTIONS:**

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"  
 DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.
2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
3. Contract ADMINISTERED BY: JWA  
 Contract HELD BY: TBD  
 CONTACT PERSON: TBD

### **WORK INSTRUCTIONS:**

#### **1. PULLEYS AND ROLLERS**

VISUALLY INSPECT THE PULLEY AND ROLLERS FOR ROTATION AND SURFACE DAMAGE.  
 INSPECT PULLEY AND ROLLER ASSEMBLIES FOR SHAFT AND BEARING TIGHTNESS OF ATTACHMENT.

#### **2. BEARINGS**

INSPECT BEARING FOR WEAR OR BAD SEALS. IF NECESSARY, REPLACE BEARINGS.  
 CHECK FOR HIGH TEMPERATURE AND EXCESSIVE NOISE. IF NECESSARY, REPLACE BEARINGS.  
 INSPECT FOR TIGHTNESS.  
 INSPECT BEARING MOUNTING SHIMS FOR CORRECT ALIGNMENT.

#### **3. MOTORS**

INSPECT THE MOTOR MOUNTING FOR TIGHTNESS.  
 CHECK AND TIGHTEN THE SET SCREWS ON THE MOTOR SHEAVE.  
 CHECK MOTOR BEARINGS FOR PROPER LUBRICATION AND DAMAGE. IF DEFECTIVE, REPLACE.  
 ON MOTORS HAVING GREASE DRAIN PLUG AND OPERATE MOTOR FOR TWENTY MINUTES BEFORE REPLACING THE DRAIN PLUG.

#### **"CAUTION"**

KEEP GREASE CLEAN. LUBRICATE MOTORS AT A STANDSTILL.  
 DO NOT MIX PETROLEUM GREASE AND SILICONE GREASE IN MOTOR BEARINGS.

#### **4. SPEED REDUCERS**

INSPECT MOUNTING BOLTS FOR TIGHTNESS.  
 CHECK FOR HIGH TEMPERATURE. OUTSIDE HOUSING SHOULD NOT EXCEED 200 DEGREE FAHRENHEIT.  
 CHECK ALL TIGHTEN THE SET SCREWS ON THE REDUCER SHEAVE.  
 CLEAN GREASE FITTING.  
 CHECK AND TIGHTEN ALL DRAIN PLUGS.  
 CHECK AND REALIGN THE REDUCER SHEAVE.  
 CHECK FOR LUBRICANT LEAK  
 INSPECT TORQUE ARM MOUNTING FOR TIGHTNESS.

CHECK REDUCER FOR EXCESSIVE TEMPERATURE OR UNUSUAL NOISE.  
INSPECT REDUCER HOUSING FOR EXCESSIVE DUST AND DIRT AND CLEAN, IF NECESSARY.

#### 5. CONVEYOR FRAME

INSPECT MOUNTING BOLTS FOR TIGHTNESS.

#### 6. CONVEYOR GUARD

INSPECT GUARDS AND BED FASTENERS FOR PROPER POSITION, COMPLETE FUNCTIONALITY, AND TIGHTNESS OF MOUNTING BOLTS.

INSPECT FOR SECURITY AND CHECK CONVEYOR BED FOR ALIGNMENT.

#### 7. V-BELTS/TIMING BELTS AND SHEAVES/SPROCKETS

INSPECT THE SHEAVES FOR TIGHTNESS AND CONDITION OF GROOVE. IF GROOVE IS BADLY SCORED, REPLACE THE SHEAVE. INSPECT SPROCKETS FOR BROKEN TEETH.

INSPECT ALL SHEAVES AND SPROCKETS FOR ALIGNMENT; THIS MAY BE DONE BY PLACING A STRAIGHT EDGE ACROSS BOTH SHEAVES OR SPROCKETS AS ILLUSTRATED IN FIGURE MS-1. THE STRAIGHT EDGE SHOULD LAY FLAT AGAINST THE SURFACE OF BOTH SHEAVES OR SPROCKETS. INSPECT V-BELTS OR TIMING BELTS FOR CRACKS, BREAKS, MISSING TEETH OR OTHER SIGNS OF DETERIORATION. REPLACE AS NECESSARY.

CHECK V-BELTS OR TIMING BELTS FOR PROPER TENSION.

#### 8. BELT CURVE BELTS

CHECK BELT TENSION AND BELT RUN. ADJUST AS NECESSARY. (SEE APPENDIX D-BELT TENSIONING DIAGRAM).

CHECK GEAR MOTOR OR MOTOR/REDUCER FOR NOISE. REPLACE OR ADJUST AS NEEDED.

CHECK SURFACE OF PULLEYS. REPLACE AS NECESSARY.

### **BHS BELT CONVEYORS CLEAR BAG / SUSPECT BAG QUARTERLY PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

#### SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACTPERSON: TBD

#### WORK INSTRUCTIONS:

##### 1. BAGGAGE SNAG POINTS

CHECK THE CONVEYOR FOR POINTS ALONG THE BELT WHERE BAGGAGE MIGHT SNAG, AND CORRECT THESE SITUATIONS.

##### 2. GUARDS

MAKE SURE ALL GUARDS ARE IN PLACE AND SAFETY INTERLOCKS ARE OPERATIONAL.

##### 3. BEARINGS FLANGE

GREASE FITTINGS. USE SHELL ALVANIA #2 FOR LUBRICATION.

4. MOTOR

GREASE FITTINGS. USE SHELL ALVANIA #2 FOR LUBRICATION.

5. REDUCER

FILL PLUG. USE SHELL TURBO 100.

6. CHAINS & SPROCKET

SET APPLICATION TO MANUAL. USE MOBIL SHC 630.

7. FLANGE BEARING

(GREASE FITTINGS. USE SHELL ALVANIA #2.

8. PULLEY TRAIL

VISUALLY INSPECT THE TRAIL PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

9. PULLEY TU

VISUALLY INSPECT THE TAKE UP PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

10. PULLEY DRIVE

VISUALLY INSPECT THE DRIVE PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

11. PULLEY SNUB

VISUALLY INSPECT THE SNUB PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

12. PULLEY RETURN ROLLER

VISUALLY INSPECT THE RETURN ROLLER PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

13. HARDWARE TIGHTNESS

INSPECT ALL CONVEYOR HARDWARE FOR TIGHTNESS. TIGHTEN ALL NUTS AND BOLTS AS NECESSARY.

14. CHAIN/SPROCKET ALIGNMENT

CHECK CHAIN AND SPROCKET ALIGNMENT, AND CORRECT IF NECESSARY.

15. V-BELT SHEAVE ALIGNMENT

VISUALLY CHECK V-BELT SHEAVE ALIGNMENT. REALIGN AS NECESSARY.

16. V-BELT TENSION

CHECK TENSION ON V-BELT AND ADJUST AS NECESSARY.

17. V-BELT SHEAVE WEAR

CHECK V-BELT SHEAVE FOR TIGHTNESS AND CONDITION OF GROOVE. IF GROOVE IS BADLY SCORED, REPLACE THE SHEAVE.

18. PULLEY HEAD

VISUALLY INSPECT THE HEAD PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

19. BELT TRACKING

VISUALLY INSPECT BELT FOR SIGNS OF TRACKING PROBLEMS. CORRECT TRACKING AS NECESSARY.

## 20. BELT TENSION

(ENSURE THAT BELT TENSION IS CORRECT. RE-TENSION BELT AS NECESSARY.

## 21. BELT LACING

VISUALLY INSPECT BELT LACING FOR SECURITY, AND THAT LACING IS TIGHT.

## 22. BEARING LUBRICATION

ENSURE THAT BEARINGS ARE PROPERLY LUBRICATED.

**BELT CONVEYORS CLEAR BAG / SUSPECT BAG SEMI-ANNUAL PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

## SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNING AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

## WORK INSTRUCTIONS:

## 1. GENERAL HOUSEKEEPING

PERFORM GENERAL HOUSEKEEPING FUNCTIONS AROUND THE BELT CONVEYOR. CLEAN UP ALL LUBRICANT SPILLS AND ANY DEBRIS THAT IS IN THE AREA.

## 2. REDUCER OIL/GREASE LEVEL

CHECK OIL/GREASE LEVELS IN REDUCER. FILL AS NECESSARY.

## 3. REDUCER TEMPERATURE

CAREFULLY PLACE HAND NEAR REDUCER AND CHECK FOR EXCESSIVE HEAT. ADD LUBRICATION AS REQUIRED.

## 4. REDUCER NOISE

LISTEN FOR UNUSUAL REDUCER NOISE. REPAIR OR REPLACE MOTOR AS NECESSARY.

## 5. MOTOR NOISE

LISTEN FOR UNUSUAL MOTOR NOISE. REPAIR OR REPLACE MOTOR AS NECESSARY.

**BHS CLEAR BAG/SUSPECT BAG BELT CONVEYORS MONTHLY PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

## SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACTPERSON: TBD

#### WORK INSTRUCTIONS:

##### 1. PULLEYS AND ROLLERS

VISUALLY INSPECT THE PULLEY AND ROLLERS FOR ROTATION AND SURFACE DAMAGE. INSPECT PULLEY AND ROLLER ASSEMBLIES FOR SHAFT AND BEARING TIGHTNESS OF ATTACHMENT.

##### 2. BEARINGS

INSPECT BEARING FOR WEAR OR BAD SEALS. IF NECESSARY, REPLACE BEARINGS. CHECK FOR HIGH TEMPERATURE AND EXCESSIVE NOISE. IF NECESSARY, REPLACE BEARINGS. INSPECT FOR TIGHTNESS. INSPECT BEARING MOUNTING SHIMS FOR CORRECT ALIGNMENT.

##### 3. MOTORS

INSPECT THE MOTOR MOUNTING FOR TIGHTNESS. CHECK AND TIGHTEN THE SET SCREWS ON THE MOTOR SHEAVE. CHECK MOTOR BEARINGS FOR PROPER LUBRICATION AND DAMAGE. IF DEFECTIVE, REPLACE. ON MOTORS HAVING GREASE DRAIN PLUG AND OPERATE MOTOR FOR TWENTY MINUTES BEFORE REPLACING THE DRAIN PLUG.

#### "CAUTION"

KEEP GREASE CLEAN. LUBRICATE MOTORS AT A STANDSTILL. DO NOT MIX PETROLEUM GREASE AND SILICONE GREASE IN MOTOR BEARINGS.

##### 4. SPEED REDUCERS

INSPECT MOUNTING BOLTS FOR TIGHTNESS. CHECK FOR HIGH TEMPERATURE. OUTSIDE HOUSING SHOULD NOT EXCEED 200 DEGREE FARENHEIT. CHECK ALL TIGHTEN THE SET SCREWS ON THE REDUCER SHEAVE. CLEAN GREASE FITTING. CHECK AND TIGHTEN ALL DRAIN PLUGS. CHECK AND REALIGN THE REDUCER SHEAVE. CHECK FOR LUBRICANT LEAK INSPECT TORQUE ARM MOUNTING FOR TIGHTNESS. CHECK REDUCER FOR EXCESSIVE TEMPERATURE OR UNUSUAL NOISE. INSPECT REDUCER HOUSING FOR EXCESSIVE DUST AND DIRT AND CLEAN, IF NECESSARY.

##### 5. CONVEYOR FRAME

INSPECT MOUNTING BOLTS FOR TIGHTNESS.

##### 6. CONVEYOR GUARD

INSPECT GUARDS AND BED FASTENERS FOR PROPER POSITION, COMPLETE FUNCTIONALITY, AND TIGHTNESS OF MOUNTING BOLTS. INSPECT FOR SECURITY AND CHECK CONVEYOR BED FOR ALIGNMENT.

##### 7. V-BELTS/TIMING BELTS AND SHEAVES/SPROCKETS

INSPECT THE SHEAVES FOR TIGHTNESS AND CONDITION OF GROOVE. IF GROOVE IS BADLY SCORED, REPLACE THE SHEAVE. INSPECT SPROCKETS FOR BROKEN TEETH.

INSPECT ALL SHEAVES AND SPROCKETS FOR ALIGNMENT; THIS MAY BE DONE BY PLACING A STRAIGHT EDGE ACROSS BOTH SHEAVES OR SPROCKETS AS ILLUSTRATED IN FIGURE MS-1. THE STRAIGHT EDGE SHOULD LAY FLAT AGAINST THE SURFACE OF BOTH SHEAVES OR SPROCKETS. INSPECT V-BELTS OR TIMING BELTS FOR CRACKS, BREAKS, MISSING TEETH OR OTHER SIGNS OF DETERIORATION. REPLACE AS NECESSARY.

CHECK V-BELTS OR TIMING BELTS FOR PROPER TENSION.

#### 8. BELT CURVE BELTS

CHECK BELT TENSION AND BELT RUN. ADJUST AS NECESSARY. (SEE APPENDIX D-BELT TENSIONING DIAGRAM).

CHECK GEAR MOTOR OR MOTOR/REDUCER FOR NOISE. REPLACE OR ADJUST AS NEEDED.

CHECK SURFACE OF PULLEYS. REPLACE AS NECESSARY

### **BHS BELT CONVEYORS OVERSIZE/INBOUND/MAKE-UP/FIRE DOOR QUARTERLY PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

#### SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

#### WORK INSTRUCTIONS:

##### 1. BAGGAGE SNAG POINTS

CHECK THE CONVEYOR FOR POINTS ALONG THE BELT WHERE BAGGAGE MIGHT SNAG, AND CORRECT THESE SITUATIONS.

##### 2. GUARDS

MAKE SURE ALL GUARDS ARE IN PLACE AND SAFETY INTERLOCKS ARE OPERATIONAL.

##### 3. BEARINGS FLANGE

GREASE FITTINGS. USE SHELL ALVANIA #2 FOR LUBRICATION.

##### 4. MOTOR

GREASE FITTINGS CHECK BEARING CAPS AND REPLACE AS NECESSARY. USE SHELL ALVANIA #2 FOR LUBRICATION.

##### 4. REDUCER

FILL PLUG. USE SHELL TURBO 100.

##### 6. CHAINS & SPROCKET

SET APPLICATION TO MANUAL. USE MOBIL SHC 630.

##### 7. FLANGE BEARING

GREASE FITTINGS. USE SHELL ALVANIA #2.

8. PULLEY TRAIL

VISUALLY INSPECT THE TRAIL PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

9. PULLEY TU

VISUALLY INSPECT THE TAKE UP PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

10. PULLEY DRIVE

VISUALLY INSPECT THE DRIVE PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

11. PULLEY SNUB

VISUALLY INSPECT THE SNUB PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

12. PULLEY RETURN ROLLER

VISUALLY INSPECT THE RETURN ROLLER PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

13. HARDWARE TIGHTNESS

INSPECT ALL CONVEYOR HARDWARE FOR TIGHTNESS. TIGHTEN ALL NUTS AND BOLTS AS NECESSARY.

14. CHAIN/SPROCKET ALIGNMENT

CHECK CHAIN AND SPROCKET ALIGNMENT, AND CORRECT IF NECESSARY.

15. V-BELT SHEAVE ALIGNMENT

VISUALLY CHECK V-BELT SHEAVE ALIGNMENT. REALIGN AS NECESSARY.

16. V-BELT TENSION

CHECK TENSION ON V-BELT AND ADJUST AS NECESSARY.

17. V-BELT SHEAVE WEAR

CHECK V-BELT SHEAVE FOR TIGHTNESS AND CONDITION OF GROOVE. IF GROOVE IS BADLY SCORED, REPLACE THE SHEAVE.

18. PULLEY HEAD

VISUALLY INSPECT THE HEAD PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

19. BELT TRACKING

VISUALLY INSPECT BELT FOR SIGNS OF TRACKING PROBLEMS. CORRECT TRACKING AS NECESSARY.

20. BELT TENSION

ENSURE THAT BELT TENSION IS CORRECT. RE-TENSION BELT AS NECESSARY.

21. BELT LACING

VISUALLY INSPECT BELT LACING FOR SECURITY, AND THAT LACING IS TIGHT.

22. BEARING LUBRICATION

ENSURE THAT BEARINGS ARE PROPERLY LUBRICATED.



**BELT CONVEYORS OVERSIZE/INBOUND/MAKE-UP/FIRE DOOR SEMI- ANNUAL PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

## SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNING AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACTPERSON: TBD

## WORK INSTRUCTIONS:

## 1. GENERAL HOUSEKEEPING

PERFORM GENERAL HOUSEKEEPING FUNCTIONS AROUND THE BELT CONVEYOR. CLEAN UP ALL LUBRICANT SPILLS AND ANY DEBRIS THAT IS IN THE AREA.

## 2. REDUCER OIL/GREASE LEVEL

CHECK OIL/GREASE LEVELS IN REDUCER. FILL AS NECESSARY.

## 3. REDUCER TEMPERATURE

CAREFULLY PLACE HAND NEAR REDUCER AND CHECK FOR EXCESSIVE HEAT. ADD LUBRICATION AS REQUIRED.

## 4. REDUCER NOISE

LISTEN FOR UNUSUAL REDUCER NOISE. REPAIR OR REPLACE MOTOR AS NECESSARY.

## 5. MOTOR NOISE

LISTEN FOR UNUSUAL MOTOR NOISE. REPAIR OR REPLACE MOTOR AS NECESSARY.

**BHS BELT CONVEYORS TICKET COUNTERS/CURBSIDE QUARTERLY PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

## SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACT PERSON: TBD

## WORK INSTRUCTIONS:

## 1. GENERAL HOUSEKEEPING

PERFORM GENERAL HOUSEKEEPING FUNCTIONS AROUND THE BELT CONVEYOR. CLEAN UP ALL LUBRICANT SPILLS AND ANY DEBRIS THAT IS IN THE AREA

2. BAGGAGE SNAG POINTS

CHECK THE CONVEYOR FOR POINTS ALONG THE BELT WHERE BAGGAGE MIGHT SNAG, AND CORRECT THESE SITUATIONS.

3. GUARDS

MAKE SURE ALL GUARDS ARE IN PLACE AND SAFETY INTERLOCKS ARE OPERATIONAL.

4. BEARINGS FLANGE

GREASE FITTINGS. USE SHELL ALVANIA #2 FOR LUBRICATION.

5. MOTOR

GREASE FITTINGS. USE SHELL ALVANIA #2 FOR LUBRICATION.

6. REDUCER

FILL PLUG. USE SHELL TURBO 100.

7. CHAINS & SPROCKET

SET APPLICATION TO MANUAL. USE MOBIL SHC 630.

8. FLANGE BEARING

GREASE FITTINGS. USE SHELL ALVANIA #2.

9. PULLEY TRAIL

VISUALLY INSPECT THE TRAIL PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

10. PULLEY TU

VISUALLY INSPECT THE TAKE UP PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

11. PULLEY DRIVE

VISUALLY INSPECT THE DRIVE PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

12. PULLEY SNUB

VISUALLY INSPECT THE SNUB PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

13. PULLEY RETURN ROLLER

VISUALLY INSPECT THE RETURN ROLLER PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

14. HARDWARE TIGHTNESS

INSPECT ALL CONVEYOR HARDWARE FOR TIGHTNESS. TIGHTEN ALL NUTS AND BOLTS AS NECESSARY.

15. CHAIN/SPROCKET ALIGNMENT

CHECK CHAIN AND SPROCKET ALIGNMENT, AND CORRECT IF NECESSARY.

16. V-BELT SHEAVE ALIGNMENT

VISUALLY CHECK V-BELT SHEAVE ALIGNMENT. REALIGN AS NECESSARY.

17. V-BELT TENSION

CHECK TENSION ON V-BELT AND ADJUST AS NECESSARY.

18. V-BELT SHEAVE WEAR

(CHECK V-BELT SHEAVE FOR TIGHTNESS AND CONDITION OF GROOVE. IF GROOVE IS BADLY SCORED, REPLACE THE SHEAVE.

19. PULLEY HEAD

VISUALLY INSPECT THE HEAD PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

20. BELT TRACKING

VISUALLY INSPECT BELT FOR SIGNS OF TRACKING PROBLEMS. CORRECT TRACKING AS NECESSARY.

21. BELT TENSION

ENSURE THAT BELT TENSION IS CORRECT. RE-TENSION BELT AS NECESSARY.

22. BELT LACING

VISUALLY INSPECT BELT LACING FOR SECURITY, AND THAT LACING IS TIGHT.

23. BEARING LUBRICATION

(ENSURE THAT BEARINGS ARE PROPERLY LUBRICATED.

**BELT CONVEYORS TICKET COUNTERS / CURBSIDE SEMI-ANNUAL PM**

EQUIPMENT: BAGGAGE HANDLING SYSTEM BELTS

SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES. "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNING AND CAUTIONS.

3. Contract ADMINISTERED BY: JWA

Contract HELD BY: TBD

CONTACTPERSON: TBD

WORK INSTRUCTIONS:

1. REDUCER OIL/GREASE LEVEL

CHECK OIL/GREASE LEVELS IN REDUCER. FILL AS NECESSARY.

2. REDUCER TEMPERATURE

CAREFULLY PLACE HAND NEAR REDUCER AND CHECK FOR EXCESSIVE HEAT. ADD LUBRICATION AS REQUIRED.

3. REDUCER NOISE

LISTEN FOR UNUSUAL REDUCER NOISE. REPAIR OR REPLACE MOTOR AS NECESSARY.

4. MOTOR NOISE

(LISTEN FOR UNUSUAL MOTOR NOISE. REPAIR OR REPLACE MOTOR AS NECESSARY.

**PARKING FIRE DOOR INSPECTION QUARTERLY PM**

EQUIPMENT: FIRE DOORS

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTION, WARNING AND CAUTIONS.
  2. Contract ADMINISTERED BY: JWA
- Contract HELD BY: TBD  
CONTACT PERSON: TBD

TOOLS AND MATERIALS:

1. Contractor's DISCRETION IN ADDITION TO:
  - A. MOBILUBE 600W OR EQUIVALENT

WORK INSTRUCTIONS:

1. INSPECT GEARBOX FOR OIL LEAKS AND SECURITY. SERVICE AS NEEDED.
  - A. TIGHTEN ALL BOLTS ON UNITS AS NEEDED.

#### **FIRE DOOR INSPECTION WEEKLY PM**

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
  2. Contract ADMINISTERED BY: JWA
- Contract HELD BY: TBD  
CONTACT PERSON: TBD

TOOLS & MATERIALS:

1. Contractor's DISCRETION.

WORK INSTRUCTIONS:

1. VISUALLY NOTE THE POSITION OF THE FIRE DOOR UP OR DOWN.
2. CYCLE BELT SYSTEM TO RAISE OF LOWER DOOR.
3. INSURE DOOR TRAVELS PROPER DISTANCE UP AND DOWN.
4. ADJUST TRAVEL LIMIT SWITCHES FOR PROPER OPERATION:
  - A. DOWN-FULL TRAVEL BUT DOOR DOES NOT BULGE DUE TO EXCESS TENSION.
  - B. UP - CLEAR OF TALL BAG LIMIT BUT NOT PAST THE VERTICAL LIMIT OF THE DOOR TRACK. BOTTOM BAR DOES NOT TRAVEL PAST THE BOTTOM OF THE WALL OR DOOR FRAME.

#### **FIRE DOOR INSPECTION MONTHLY PM**

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
  2. Contract ADMINISTERED BY: JWA
- Contract HELD BY: TBD  
CONTACT PERSON: TBD

TOOLS & MATERIALS:

1. Contractor's DISCRETION.

WORK INSTRUCTIONS:

1. VISUALLY NOTE THE POSITION OF THE FIRE DOOR UP OR DOWN.
2. CYCLE BELT SYSTEM TO RAISE OF LOWER DOOR.

3. INSURE DOOR TRAVELS PROPER DISTANCE UP AND DOWN.
4. ADJUST TRAVEL LIMIT SWITCHES FOR PROPER OPERATION.
  - A. DOWN -FULL TRAVEL BUT DOOR DOES NOT BULGE DUE TO EXCESSIVE TENSION.
  - B. UP - CLEAR OF ALL BAG LIMIT BUT NOT PAST THE VERTICAL LIMIT OF THE DOOR TRACK. BOTTOM BAR DOES NOT TRAVEL PAST THE BOTTOM OF THE WALL OR DOOR FRAME.
5. INSPECT CLUTCH FOR PROPER INSTALLATION.
6. INSPECT AND ENSURE DRIVEN SPROCKET IS MESHED TO BRASS FITTING.
7. INSPECT DRIVE CHAINS FOR PROPER TENSION.
8. INSPECT MOTOR FOR GENERAL CONDITION.
9. INSPECT HEAT LINK AND CHAIN FOR GENERAL CONDITION.

#### **TERMINAL TRASH CART MONTHLY LUBRICATION PM**

EQUIPMENT: RAMP TRASH CARTS

#### **SPECIAL INSTRUCTIONS:**

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
2. Contract ADMINISTERED BY: JWA Contract HELD BY: TBA  
PERSON: TBA

#### **TOOLS AND MATERIALS:**

1. Contractor's DISCRETION.

#### **WORK INSTRUCTIONS:**

1. LUBRICATE THE FITTINGS ON THE RAMP TRASH CARTS BY EACH GATE.
2. CHECK THE CARTS FOR DAMAGE. IF DAMAGE IS FOUND REPAIR IT IF POSSIBLE. IF NOT POSSIBLE TO REPAIR, NOTIFY SUPERVISOR.

BHS PUSHERS QUARTERLY PM

THIS PM SHEET LINKED TO:

ROUTE I.D.: RT-BHS-CLR/SUS

EQUIPMENT: BAGGAGE HANDLING SYSTEM PUSHERS

PM TASK: OSC-ME-156 / BHS BELT-091

SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES.

"WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

3. CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY: 

CONTACT PERSON:

WORK INSTRUCTIONS:

1. MAIN BEARING LUBRICATION (VSU AND PUSHER).

( ) ENSURE THAT BEARINGS ARE PROPERLY LUBRICATED.

2. REDUCER TOP OUTPUT SHAFT BEARING (PUSHER)

( ) ENSURE THAT BEARING IS PROPERLY LUBRICATED WITH GREASE.

3. PILLOWBLOCK BEARINGS

( ) GREASE FITTING. USE SHELL ALVANIA #2.

4. REDUCER LOW SPEED BEARING

( ) GREASE FITTING. SHELL ALVANIA #2.

## 5. PUSHER GUARD

( ) INSPECT GUARD FOR PROPER POSITION, COMPLETE FUNCTIONALITY, AND TIGHTNESS OF MOUNTING BOLTS.

## 6. SPEED REDUCER

( ) INSPECT REDUCER MOUNTING BOLTS FOR TIGHTNESS.

( ) INSPECT SHAFT COLLAR SET SCREWS FOR TIGHTNESS.

( ) INSPECT REDUCER FOR EXCESSIVE OIL LEAKAGE, GREASE LEAKAGE OR BAD SEALS.

( ) CHECK REDUCER FOR EXCESSIVE TEMPERATURE OR UNUSUAL NOISE.

( ) INSPECT REDUCER HOUSING FOR EXCESSIVE DUST AND DIRT AND CLEAN, IF NECESSARY.

( ) CHECK FOR HIGH TEMPERATURE.

( ) OUTSIDE HOUSING SHOULD NOT EXCEED 200 DEGREES FARENHEIT.

( ) CLEAN GREASE FITTING.

( ) CHECK AND TIGHTEN ALL DRAIN PLUGS.

## 7. MOTOR COUPLING

( ) CHECK FOR UNUSUAL OR EXCESSIVE NOISE.

( ) INSPECT SET SCREWS FOR TIGHTNESS.

( ) INSPECT COUPLING SPIDER FOR WEAR OR DAMAGE.

## 8. SERVOMOTOR

( ) CHECK FOR UNUSUAL OR EXCESSIVE NOISE.

( ) INSPECT MOTOR FRAME EXTERIOR FOR EXCESSIVE DUST AND DIRT, AND CLEAN IF NECESSARY.

( ) INSPECT THE MOTOR MOUNTING FOR TIGHTNESS.

( ) THE SERVOMOTOR IS A SEALED UNIT WITH SEALED BEARINGS. NO GREASING OF THE MOTOR BEARINGS IS REQUIRED.

## PUSHER UNIQUE INSPECTIONS MONTHLY PM

THIS PM SHEET LINKED TO:

ROUTE I.D.: RT-BHS-CLR/SUS

EQUIPMENT: BAGGAGE HANDLING SYSTEM PUSHERS

PM TASK: OSC-ME-152 / BHS PUSHER-028

## SPECIAL INSTRUCTIONS:

## "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE VSU IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY: F

CONTACT PERSON:

## WORK INSTRUCTIONS:

## 1. BEARINGS

( ) INSPECT BEARINGS FOR WEAR OR BAD SEALS. IF NECESSARY, REPLACE BEARINGS.

( ) CHECK FOR HIGH TEMPERATURE AND EXCESSIVE NOISE. IF NECESSARY, REPLACE BEARINGS.

( ) INSPECT SETSCREWS FOR TIGHTNESS ON SHAFT.

( ) INSPECT BEARING MOUNTING BOLTS FOR TIGHTNESS.

( ) INSPECT BEARING MOUNTING SHIMS FOR CORRECT ALIGNMENT.

## 2. SHAFT COLLAR

( ) INSPECT SETSCREWS FOR TIGHTNESS ON SHAFT.

( ) INSPECT SHAFT COLLAR POSITION FOR TIGHTNESS AGAINST PUSHER ARM HUB.

## 3. PUSHER ARM

( ) INSPECT PUSHER ARM FOR CORRECT HEIGHT ABOVE CONVEYOR SLIDER BED. THE CORRECT HEIGHT IS 1 INCH FROM THE BOTTOM OF THE SLIDER BED.

( ) CHECK RINGFEDER HUB MOUNTING SCREWS FOR PROPER TIGHTNESS ONCE THE ARM IS SET TO THE CORRECT HEIGHT.

## 4. PUSHER FRAME

( ) INSPECT MOUNTING BOLTS FOR TIGHTNESS.



#### 5. PUSHER GUARD

( ) INSPECT GUARD FOR PROPER POSITION, COMPLETE FUNCTIONALITY, AND TIGHTNESS OF MOUNTING BOLTS.

#### 6. SPEED REDUCER

( ) INSPECT REDUCER MOUNTING BOLTS FOR TIGHTNESS.

( ) INSPECT SHAFT COLLAR SET SCREWS FOR TIGHTNESS.

( ) INSPECT REDUCER FOR EXCESSIVE OIL LEAKAGE, GREASE LEAKAGE OR BAD SEALS.

( ) CHECK REDUCER FOR EXCESSIVE TEMPERATURE OR UNUSUAL NOISE.

( ) INSPECT REDUCER HOUSING FOR EXCESSIVE DUST AND DIRT AND CLEAN, IF NECESSARY.

( ) CHECK FOR HIGH TEMPERATURE.

( ) OUTSIDE HOUSING SHOULD NOT EXCEED 200 DEGREES FARENHEIT.

( ) CLEAN GREASE FITTING.

( ) CHECK AND TIGHTEN ALL DRAIN PLUGS.

#### 7. MOTOR COUPLING

( ) CHECK FOR UNUSUAL OR EXCESSIVE NOISE.

( ) INSPECT SET SCREWS FOR TIGHTNESS.

( ) INSPECT COUPLING SPIDER FOR WEAR OR DAMAGE.

#### 8. SERVOMOTOR

( ) CHECK FOR UNUSUAL OR EXCESSIVE NOISE.

( ) INSPECT MOTOR FRAME EXTERIOR FOR EXCESSIVE DUST AND DIRT, AND CLEAN IF NECESSARY.

( ) INSPECT THE MOTOR MOUNTING FOR TIGHTNESS.

( ) THE SERVOMOTOR IS A SEALED UNIT WITH SEALED BEARINGS. NO GREASING OF THE MOTOR BEARINGS IS REQUIRED.

BHS PUSHERS QUARTERLY PM

THIS PM SHEET LINKED TO:

ROUTE I.D.: RT-BHS-CLR/SUS

EQUIPMENT: BAGGAGE HANDLING SYSTEM PUSHERS

PM TASK: OSC-ME-156 / BHS BELT-091

SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES.

"WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE CONVEYOR IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

3. CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY:

CONTACT PERSON: ""

WORK INSTRUCTIONS:

1. MAIN BEARING LUBRICATION (VSU AND PUSHER).

( ) ENSURE THAT BEARINGS ARE PROPERLY LUBRICATED.

2. REDUCER TOP OUTPUT SHAFT BEARING (PUSHER)

( ) ENSURE THAT BEARING IS PROPERLY LUBRICATED WITH GREASE.

3. PILLOWBLOCK BEARINGS

( ) GREASE FITTING. USE SHELL ALVANIA #2.

4. REDUCER LOW SPEED BEARING

( ) GREASE FITTING. SHELL ALVANIA #2.

EQUIPMENT LOCATION:

( ) SB1-01/P1 SUSPECT BAG 1 - SOUTH (PUSHER)

( ) SB2-01/P1 SUSPECT BAG 2 - SOUTH (PUSHER)

( ) SB3-01/P1 SUSPECT BAG 3 - SOUTH (PUSHER)

( ) SB4-01/P1 SUSPECT BAG 4 - SOUTH (PUSHER)

VERTICAL SORT UNITS SEMI-ANNUAL PM

THIS PM SHEET LINKED TO:

ROUTE I.D.: RT-BHS-VSU

EQUIPMENT: BAGGAGE HANDLING SYSTEM VERTICAL SORT UNITS

PM TASK: OSC-ME-161 / BHS VSU-184

SPECIAL INSTRUCTIONS:

"WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE VSU IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY:

CONTACT PERSON:

WORK INSTRUCTIONS:

1. MOTOR NOISE (VSU)

( ) LISTEN FOR UNUSUAL MOTOR NOISE. REPAIR OR REPLACE MOTOR AS NECESSARY.

JWA\*BHS VSU-184.DSC

## BHS VERTICAL SORT UNIT QUARTERLY PM

THIS PM SHEET LINKED TO:

ROUTE I.D.: RT-BHS-VSU

EQUIPMENT: BAGGAGE HANDLING SYSTEM VERTICAL SORT UNIT

PM TASK: OSC-ME-157 / BHS VSU-091

## SPECIAL INSTRUCTIONS:

1. INSPECT COMPONENTS AT THE INTERVALS SUGGESTED IN THE PREVENTIVE MAINTENANCE INSPECTION CHECK SHEET OR AT OTHER INTERVALS TO SUIT OPERATION AND ENVIRONMENTAL CONDITIONS AS EXPERIENCE DICTATES.
2. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
3. CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY

CONTACT PERSON: -----

## WORK INSTRUCTIONS:

## 1. TIMING BELT SPROCKET ALIGNMENT (VSU)

( ) CHECK TIMING BELT AND SPROCKET ALIGNMENT, AND CORRECT IF NECESSARY.

## 2. TIMING BELT/SPROCKET TENSION (VSU)

( ) CHECK TIMING BELT TENSION AND RETENSION TIMING BELT AS NECESSARY.

## 3. TIMING BELT/SPROCKET WEAR (VSU)

( ) CHECK TIMING BELT AND SPROCKET FOR UNUSUAL WEAR. IF UNUSUAL WER IS FOUND, REPLACE TIMING BELT OR SPROCKET.

## 4. MAIN SHAFT BEARING LUBRICATION (VSU AND PUSHER)

( ) ENSURE THAT BEARING ARE PROPERLY LUBRICATED.

## 5. PULLEY HEAD/TAKE UP (VSU)

( ) VISUALLY INSPECT THE HEAD PULLEY FOR ROTATION AND SURFACE DAMAGE. REPLACE AS NECESSARY.

## 6. BEARING LUBRICATION (VSU)

( ) ENSURE THAT BEARINGS ARE PROPERLY LUBRICATED.

## VERTICAL SORTING UNIT (VSU) INSPECTIONS MONTHLY PM

THIS PM SHEET LINKED TO:

ROUTE I.D.: RT-BHS-VSU

EQUIPMENT: BAGGAGE HANDLING SYSTEM VERTICAL SORTING UNIT

PM TASK: OSC-ME-153 / BHS VERTICAL SORTING UNIT-028

## SPECIAL INSTRUCTIONS:

## "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE VSU IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY:

CONTACT PERSON:

## WORK INSTRUCTIONS:

## 1. MAIN SHAFT BEARINGS

( ) INSPECT BEARINGS FOR WEAR OR BAD SEALS. IF NECESSARY, REPLACE BEARINGS.

( ) CHECK FOR HIGH TEMPERATURE AND EXCESSIVE NOISE. IF NECESSARY, REPLACE BEARINGS.

( ) INSPECT SETSCRES FOR TIGHTNESS ON SHAFT.

( ) INSPECT BEARING MOUNTING BOLTS FOR TIGHTNESS.

## 2. SPEED REDUCERS

( ) INSPECT REDUCER MOUNTING BOLTS FOR TIGHTNESS.

( ) INSPECT REDUCER FOR EXCESSIVE OIL LEAKAGE, GREASE LEAKAGE, OR BAD SEALS.

( ) CHECK REDUCER FOR EXCESSIVE TEMPERATURE OR UNUSUAL NOISE.

( ) INSPECT REDUCER HOUSING FOR EXCESSIVE DUST AND DIRT AND CLEAN, IF NECESSARY.

( ) CHECK FOR HIGH TEMPERATURE. OUTSIDE HOUSING SHOULD NOT EXCEED 200 DEGREES FARENHEIT.

( ) CLEAN GREASE FITTING.

( ) CHECK AND TIGHTEN ALL DRAIN PLUGS.

( ) CHECK REDUCER IS PROPERLY VENTED.

## 3. MOTOR COUPLINGS

## VERTICAL SORTING UNIT (VSU) INSPECTIONS MONTHLY PM

THIS PM SHEET LINKED TO:

ROUTE I.D.: RT-BHS-VSU

EQUIPMENT: BAGGAGE HANDLING SYSTEM VERTICAL SORTING UNIT

PM TASK: OSC-ME-153 / BHS VERTICAL SORTING UNIT-028

## SPECIAL INSTRUCTIONS:

## "WARNING"

DO NOT ATTEMPT TO PERFORM MAINTENANCE OR MAKE ADJUSTMENTS WITHOUT FIRST CONSULTING THIS MAINTENANCE MANUAL. BE SURE THE VSU IS ALWAYS DISCONNECTED FROM THE POWER SOURCE AND A LOCKOUT/TAGOUT HAS BEEN PERFORMED BEFORE STARTING MAINTENANCE.

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY:

CONTACT PERSON:

## WORK INSTRUCTIONS:

## 1. MAIN SHAFT BEARINGS

( ) INSPECT BEARINGS FOR WEAR OR BAD SEALS. IF NECESSARY, REPLACE BEARINGS.

( ) CHECK FOR HIGH TEMPERATURE AND EXCESSIVE NOISE. IF NECESSARY, REPLACE BEARINGS.

( ) INSPECT SETSCRES FOR TIGHTNESS ON SHAFT.

( ) INSPECT BEARING MOUNTING BOLTS FOR TIGHTNESS.

## 2. SPEED REDUCERS

( ) INSPECT REDUCER MOUNTING BOLTS FOR TIGHTNESS.

( ) INSPECT REDUCER FOR EXCESSIVE OIL LEAKAGE, GREASE LEAKAGE, OR BAD SEALS.

( ) CHECK REDUCER FOR EXCESSIVE TEMPERATURE OR UNUSUAL NOISE.

( ) INSPECT REDUCER HOUSING FOR EXCESSIVE DUST AND DIRT AND CLEAN, IF NECESSARY.

( ) CHECK FOR HIGH TEMPERATURE. OUTSIDE HOUSING SHOULD NOT EXCEED 200 DEGREES FARENHEIT.

( ) CLEAN GREASE FITTING.

( ) CHECK AND TIGHTEN ALL DRAIN PLUGS.

( ) CHECK REDUCER IS PROPERLY VENTED.

## 3. MOTOR COUPLINGS

TERMINAL MAXICLAIM II QUARTERLY PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-OS/IB/MU

EQUIPMENT: OVERSIZE, INBOUND, MAKEUP CAROUSELS

PM TASK: OSC-ME-004 \ MAX-091

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY:

CONTACT PERSON

TOOLS AND MATERIALS:

1. ( ) CONTRACTOR'S DISCRETION IN ADDITION TO:

A. ( ) MOBILUBE 600W OR EQUIVALENT

2. ( ) INSPECT ALL WHEELS FOR WEAR AND MOUNTING SECURITY.  
REPLACE OR TIGHTEN AS NEEDED.

A. ( ) REMOVE DEBRIS FROM LOWER WHEEL TRACK AND  
CAM TRACK AS NEEDED.

MAXICLAIM SEMI-ANNUAL OR 3000 HOUR PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-MAXCLAM

EQUIPMENT: CAROUSELS

PM TASK: OSC-ME-041 / MAX-184

**SPECIAL INSTRUCTIONS:**

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
2. CONTRACT ADMINISTERED BY: JWA
- CONTRACT HELD BY: JWA
- CONTACT PERSON: JWA

**TOOLS & MATERIALS:**

1. CONTRACTOR'S DISCRETION
2. #2 CONSISTENCY LITHIUM BASE GREASE
3. SAE 30 MOTOR OIL
4. ALLEN WRENCHS

**WORK INSTRUCTIONS:**

1. PALLET DRIVE:

**\*\*WARNING\*\***

BE SURE THAT THE POWER IS TURNED OFF AT THE MAIN ELECTRICAL PANEL DISCONNECT SWITCH WHEN SERVICING THE UNIT BELOW THE TREAD SURFACE.

2. ( ) REMOVE ONE SECTION OF THE TOP TRIM AND THREE PALLETS, IN THE LINE DRIVE SECTION. EACH PALLET IS SECURED TO THE LINKAGE, BY FOUR SCREWS, THROUGH THE TOP SURFACE OF THE PALLET. SERVICE AND INSPECT THE FOLLOWING ITEMS.

**\*\*CAUTION\*\***

DO NOT OPERATE THE UNIT WITH MORE THAN TWO CONSECUTIVE PALLETS REMOVED; SUCH OPERATION WOULD ALLOW THE LINKAGE TO DROP AND NOT PROPERLY ENGAGE THE DRIVE CHAIN.

3. ELECTRIC MOTOR:

- A. ( ) INSPECT MOUNTING FOR TIGHTNESS.

- B. ( ) LUBRICATE MOTOR BEARINGS, AT THE INTERVALS SHOWN ON THE SERVICE FREQUENCY CHART.

- C. ( ) A #2 CONSISTENCY LITHIUM BASE GREASE SHOULD BE USED TO LUBRICATE THE BEARINGS. CLEAN THE TIPS OF THE FITTINGS BEFORE APPLYING THE GREASE GUN. USE 1 OR 2 FULL STROKES OF GREASE. ON MOTORS HAVING GREASE DRAIN PLUGS, REMOVE THE DRAIN PLUG AND OPERATE THE MOTOR FOR 20 MINUTES BEFORE REPLACING THE PLUG.

**\*\* CAUTION \*\***

KEEP THE GREASE CLEAN. LUBRICATE MOTORS AT A STANDSTILL. REMOVE AND REPLACE DRAIN PLUGS



WITH MOTOR AT A STANDSTILL. DO NOT MIX PETROLEUM GREASE AND SILICONE GREASE IN THE MOTOR BEARINGS.

4. HIGH SPEED MOTOR COUPLING - WOODS SUREFLEX OR LOVEJOY:  
A. ( ) INSPECT SET SCREWS FOR TIGHTNESS.

B. ( ) INSPECT RUBBER INSERTS FOR SIGNS OF DETERIORATION.

5. DRIVE CHAIN ASSEMBLY - MAXICLAIM II:

A. ( ) INSPECT CAM DRIVE CHAIN FOR FAILURE OF LINKS OR COTTER PINS.

1. ( ) CLAN AND LUBRICATE AS NEEDED.

B. ( ) CLEAN DRIVE CHAIN AND CHAIN GUIDE BARS WITH SOLVENT, TWICE YEARLY OR AT TIME OF PILLOW BLOCKS LUBRICATION.

C. ( ) INSPECT DRIVE LUGS FOR TIGHTNESS AND UNIFORM WEAR.

D. ( ) INSPECT DRIVE CHAIN FOR TIGHTNESS AND ALIGNMENT. ADJUST CHAIN TAKE-UP IF NECESSARY.

**\*\*NOTE\*\***

FOR PROPER CHAIN TIGHTNESS, A LOAD OF 15 POUNDS APPLIED PERPENDICULAR TO THE LOWER SPAN, MIDWAY BETWEEN THE SPROCKET CENTER LINE, SHOULD DEFLECT THE CHAIN 1/2 INCH.

E. ( ) CHECK RUBBER BUMPER ASSEMBLY FOR MOUNTING SECURITY AND WEAR. REPAIR OR REPLACE AS NEEDED.

1. ( ) REPLACE MISSING SCREWS AND WING NUTS AT BASE OF PALLET ASSEMBLY.

F. ( ) INSPECT POSITIONING OF LEVELING PADS. RE-INSTALL AND ADJUST AS NEEDED.

6. MAXICLAIM II:

A. ( ) INSPECT PALLET ASSEMBLY - GENERAL CONDITION, TIE CHAIN, ADJUSTMENT, CONDITION OF WHEELS AND FASTENER SECURITY. REPLACE, REPAIR OR ADJUST AS REQUIRED.

B. ( ) BUMPER ASSEMBLY - GENERAL CONDITION AND FASTENER SECURITY. REPLACE OR REPAIR AS REQUIRED.

1. ( ) REPLACE MISSING SCREWS AND WING NUTS AT BASE OF PALLET ASSEMBLY AS NEEDED.

C. ( ) INSPECT LEVELING PADS. REPLACE OR ADJUST AS REQUIRED.

D. ( ) CHECK ALL TRIM AND PALLETS FOR SECURITY AND DIRT. TIGHTEN ALL FASTENERS AND CLEAN ALL PALLETS AND TRIM.

E. ( ) REINSTALL ANY TRIM WHICH WAS REMOVED TO PERFORM THE SERVICE.

7. ELECTRICAL COMPONENTS:

A. ( ) CHECK FOR PROPER OPERATION AND SECURITY OF RELAYS, STARTERS, ETC. REPLACE OR TIGHTEN AS REQUIRED.

B. ( ) CHECK TERMINALS FOR SECURITY. TIGHTEN ALL LOOSE CONNECTIONS.

C. ( ) CHECK CONTACTS FOR SIGNS OF WEAR. REPLACE OR CLEAN AS REQUIRED.

D. ( ) CAROUSEL SOFT STARTS:

1. ( ) INSURE SECURITY OF ALL SCREWS AND BOLTS ON OR WITHIN THE UNIT.

2. ( ) TAKE OPERATING CURRENT LOAD READINGS AT L1, L2 AND L3 IN MCP PANEL. LOG ON FORM IN MCP PANEL AND ON WORK ORDER. REPLACE OR REPAIR AS NEEDED.

E. ( ) VACUUM OR WIPE OUT ANY DIRT, DUST OR DEBRIS UNDERNEATH THE CAROUSELS.

F. ( ) CHECK OPERATION OF ALL EMERGENCY STOP SWITCHES.

TERMINAL MAXICLAIM II MONTHLY PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-MAXCLAM

EQUIPMENT: CAROUSELS

PM TASK: OSC-ME-042 / MAX-028

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
  2. CONTRACT ADMINISTERED BY: JWA
- CONTRACT HELD BY: JWA  
CONTACT PERSON:

TOOLS & MATERIALS:

1. CONTRACTOR'S DISCRETION IN ADDITION.

WORK INSTRUCTIONS:

1. MAXICLAIM II

A. ( ) INSPECT MOTOR - GENERAL CONDITION AND MOUNTING SECURITY. TIGHTEN AS NEEDED.

B. ( ) INSPECT REDUCER - GENERAL CONDITION AND MOUNTING SECURITY. TIGHTEN BOLTS.

C. ( ) INSPECT MOTOR DRIVE CHAIN AND SPROCKETS FOR CONDITION, TENSION, ALIGNMENT AND LUBRICATION. REPLACE, ALIGN, TENSION OR LUBE AS NEEDED.

D. ( ) INSPECT CAM DRIVE CHAIN AND ASSOCIATED SHAFTS FOR CONDITION, TENSION, ALIGNMENT, WEAR AND LUBRICATION. REPLACE, ALIGN, TENSION OR LUBE AS NEEDED.

I. ( ) INSPECT PILLOW BLOCK BEARINGS FOR LUBRICATION, SECURITY AND WEAR. TIGHTEN, REPLACE OR LUBE AS NEEDED.

E. ( ) INSPECT DRIVE CAMS FOR CONDITION, MOUNTING SECURITY AND CAM CHAIN ENGAGEMENT. REPLACE, REPAIR, TIGHTEN AS NEEDED.

F. ( ) INSPECT NYLON STRAP HOLDING TOP OF PALLETS FOR WEAR AND MOUNTING SECURITY. REPAIR OR REPLACE AS NEEDED.

G. ( ) CHECK CAROUSEL FOR LOOSE PALLET ASSEMBLIES AND FOR GENERAL CONDITION OF EXTERIOR TRIM. REPAIR OR TIGHTEN AS NEEDED.

H. ( ) INSPECT CONDITION OF FINGERGUARD. REPAIR OR REPLACE AS NEEDED.

I. ( ) LUBE CAM TRACK.

J. ( ) CHECK OIL QUANTITY OF GEARBOX. FILL AS NEEDED.

2. COMPLETION LIST:

TERMINAL MAXICLAIM II WEEKLY PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-MAXCLAM

EQUIPMENT: CAROUSELS

PM TASK: OSC-ME-043 / MAX-007

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
  2. CONTRACT ADMINISTERED BY: JWA
- CONTRACT HELD BY  
CONTACT PERSON

TOOLS & MATERIALS:

1. CONTRACTOR'S DISCRETION.

WORK INSTRUCTIONS:

1. MAXICLAIM II:

A. ( ) INSPECT FINGER GUARD ON CAROUSELS, REPLACE AS NEEDED.

B. ( ) LISTEN FOR ABNORMAL NOISE FROM DRIVE SECTION AND  
AROUND WHEEL TRACKS. LUBE OR REPAIR AS NEEDED.

C. ( ) INSURE START-UP WARNING LIGHTS, ALARMS AND OPERATING  
LIGHTS ARE OPERATIONAL.

PC AIR MONTHLY PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: PC AIR UNITS

PM TASK: OSC-ME-148 / PCAIR-028

**WARNING:**

HIGH VOLTAGE IS USED IN THIS EQUIPMENT. USE EXTREME CARE WHEN PERFORMING INSPECTION AND MAINTENANCE TASKS TO PREVENT ACCIDENTAL INJURY OR ELECTROCUTION.

**SPECIAL INSTRUCTIONS:**

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
2. LOCK OUT THE MAIN DISCONNECT AT THE MASTER CONTROL PANEL.
3. USE AN OSHA APPROVED LANYARD AND HARNESS WHEN WORKING 4FT. OFF THE GROUND.
4. USE SAFETY GLASSES AND GLOVES TO COMPLETE ALL INSPECTIONS AND WHEN HANDLING LUBRICANTS AND HAZARDOUS MATERIALS.
5. NEVER CLIMB ON OR RIDE ON AN OPERATIONAL CONVEYOR, JETBRIDGE OR OTHER EQUIPMENT THAT IS BEING MAINTAINED OR REPAIRED.
6. CONTRACT ADMINISTERED BY: JWA
- CONTRACT HELD BY: --
- CONTACT PERSON:

**TOOLS & MATERIALS:**

1. STANDARD TOOLS - BASIC
2. SUGGESTED LUBRICANTS: SHELL ALVANIA #2, TEXACO PREMIUM RB2, MOBIL MOBILGREASE 28, OR EQUIVALENT

NOTE: ALL BEARINGS ARE FILLED WITH GREASE AT THE FACTORY. WHEN FANS ARE INITIALLY STARTED, THE BEARINGS MAY DISCHARGE EXCESS GREASE FOR A SHORT PERIOD. DO NOT REPLACE THE INITIAL DISCHARGE. SOMETIMES BEARINGS WILL RUN HOTTER DURING THIS PERIOD AND ONE SHOULD NOT BE CONCERNED UNLESS IT LASTS FOR MORE THAN 48 HOURS OR BECOMES EXCESSIVELY HOT.

**CLEANING:**

AVOID ACCUMULATION OF DIRT, DUST MOISTURE AND OTHER FOREIGN MATTER WITHIN THE ELECTRICAL CONTROLLER ENCLOSURE. CLEAN THE CONTROL CIRCUITRY BY BLOWING OUT WITH COMPRESSED AIR AT A PRESSURE OF APPROX. 20 POUND PER SQUARE INCH AND BY WIPING AWAY ANY ACCUMULATED MOISTURE OR LUBRICATING MATTER WITH A CLOTH. GREASE OR HEAVY DIRT DEPOSITS MAY BE REMOVED WITH CLEANING SOLVENT CONFORMING TO FEDERAL SPECIFICATION P.D. 680.

**WORK INSTRUCTIONS:**

1. ( ) WASH/CLEAN INLET AIR FILTERS WHENEVER ALARM INDICATES.
2. ( ) VISUALLY CHECK THE INTEGRITY OF THE LOCKING DEVICE ON THE ACCESS DOORS. LUBRICATE LOCKS, HINGES AS REQUIRED.
3. CLEAN THE INSIDE OF THE DISCHARGE PLENUM WITH A DISINFECTANT TO PREVENT BUILD-UP OF DIRT AND THE GROWTH OF MICRO-ORGANISMS.
4. ( ) VISUALLY CHECK THE REFRIGERANT SIGHT GLASS.
5. ( ) ROTATE MOTOR SHAFT
6. ( ) VISUALLY CHECK THE OIL LEVEL IN THE COMPRESSOR IF A SIGHT GLASS IS AVAILABLE.
7. ( ) CHECK THE COLOR OF THE INDICATOR ELEMENT IN THE CENTER OF THE REFRIGERANT SIGHT GLASS.

A. GREEN COLOR: THE SYSTEM IS DRY AND IS NORMAL.  
B. CHARTERUSE COLOR: THE SYSTEM HAS SOME MOISTURE AND SHOULD BE WATCHED CAREFULLY. MONTHLY CHECKS SHOULD BE INITIATED LOOKING FOR ADDITIONAL CHANGE.  
C. YELLOW COLOR: THE SYSTEM CONTAINS MOISTURE, AND A QUALIFIED REFRIGERATION SERVICE PERSON MUST CHANGE THE DRYER. THE SYSTEM MUST BE OPENED TO BRAZE A NEW DRYER, AND THE ENTIRE SYSTEM RECHARGED WITH REFRIGERANT.

8. ( ) LISTEN FOR ANY ABNORMAL NOISE OR VIBRATION. FIND THE CAUSES AND REPAIR THE MALFUNCTIONS.

9. ( ) CHECK ALL MOUNTING BOLTS TO THE PASSENGER BOARDING BRIDGE FOR LOOSENESS, AND TIGHTEN AS NECESSARY.

10. ( ) CHECK MOUNTING BOLTS TO THE DUCT BASKET AND HOSE BRACKETS, AND TIGHTEN AS NECESSARY.

11. ( ) CHECK AIR HOSES FOR HOLES, TEARS, ABRASION, WEAR, OR LEAKS. REPAIR OR REPLACE AS NEEDED.

12. ( ) CHECK DRAIN PAN FOR DIRT ACCUMULATION AND OBSTRUCTION. CHECK CONDENSATION PUMP FILTER, CLEAN AS REGULARLY.

13. ( ) CHECK ALL INDICATOR LIGHTS OF AHU CONTROLLER. REPLACE LAMPS AS REQUIRED.

PC AIR QUARTERLY PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: PC AIR UNITS

PM TASK: OSC-ME-149 / PCAIR-091

WARNING:

HIGH VOLTAGE IS USED IN THIS EQUIPMENT. USE EXTREME CARE WHEN PERFORMING INSPECTION AND MAINTENANCE TASKS TO PREVENT ACCIDENTAL INJURY OR ELECTROCUTION.

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. ALL POWER TO THE PDX UNIT SHOULD BE DISCONNECTED AND LOCKED OUT TO PREVENT ACCIDENTAL START-UP OF THE FAN DURING LUBRICATION PROCEDURES.

3. LOCK OUT THE MAIN DISCONNECT AT THE MASTER CONTROL PANEL.

4. USE AN OSHA APPROVED LANYARD AND HARNESS WHEN WORKING 4FT. OFF THE GROUND.

5. USE SAFETY GLASSES AND GLOVES TO COMPLETE ALL INSPECTIONS AND WHEN HANDLING LUBRICANTS AND HAZARDOUS MATERIALS.

6. NEVER CLIMB ON OR RIDE ON AN OPERATIONAL CONVEYOR, JETBRIDGE OR OTHER EQUIPMENT THAT IS BEING MAINTAINED OR REPAIRED.

7. CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY --

CONTACT PERSON:

TOOLS & MATERIALS:

1. STANDARD TOOLS - BASIC

2. SUGGESTED LUBRICANTS: SHELL ALVANIA #2, TEXACO PREMIUM RB2, MOBILGREASE 28, OR EQUIVALENT

WORK INSTRUCTIONS:

1. ( ) CHECK AIR FILTERS FOR CLEANLINESS. AVOID ACCUMULATION OF DIRT, DUST, MOISTURE AND OTHER FOREIGN MATTER WITH THE ELECTRICAL CONTROLLER ENCLOSURE. GREASE OR HEAVY DIRT DEPOSITS MAY BE REMOVED WITH CLEANING SOLVENT CONFORMING TO FEDERAL SPECIFICATION P.D. 680.

2. ( ) CHECK CONDENSER COILS FOR CLEANLINESS. COILS CAN BE CLEANED WITH WATER SPRAY OR STEAM. DO NOT USE PRESSURE WASHER UNLESS AT REDUCED PRESSURE SETTING; TEST THE SETTING ON A SMALL SECTION OF COIL FIRST, THEN CHECK FOR DAMAGE TO THE COIL FINS AND STRAIGHTEN THEM AS REQUIRED.

3. ( ) VISUALLY CHECK THE REFRIGERANT SIGHT GLASS.

4. ( ) VISUALLY CHECK THE OIL LEVEL IN THE COMPRESSOR IF A SIGHT GLASS IS AVAILABLE. REFER TO SECTION 3, SUB-SECTION "D" FOR DETAILS.

5. ( ) CHECK THE COLOR OF THE INDICATOR ELEMENT IN THE CENTER OF THE REFRIGERANT SIGHT GLASS.

A. GREEN COLOR: THE SYSTEM IS DRY AND IS NORMAL.

B. CHARTERUSE COLOR: THE SYSTEM HAS SOME MOISTURE AND SHOULD BE WATCHED CAREFULLY. MONTHLY CHECKS SHOULD BE INITIATED LOOKING FOR ADDITIONAL CHANGE.

C. YELLOW COLOR: THE SYSEM CONTAINS MOISTURE, AND A QUALIFIED REFRIGERATION SERVICE PERSON MUST CHANGE THE DRYER. THE SYSTEM MUST BE OPENED TO BRAZE IN A NEW DRYER, AND THE ENTIRE SYSTEM RECHARGED WITH REFRIGERANT.

6. ( ) VISUALLY CHECK EACH REFRIGERATION DRYER FOR APPEARANGE AND TEMPERATURE. CORRECT REFRIGERANT CHARGE (CHECK SIGH GLASS WHEN IN STABLE OPERATION). CORRECT CONTROL VALVE OPERATION

(TX VALVES SUPERHEAT) CHECK COMPRESSOR OPERATION AND CONDITION (PRESSURE AND MOTOR CURRENT)

7. ( ) CHECK REFRIGERANT LINES AND FLARE NUTS. CHECK LINES FOR WEAR AND LEAKAGE, REPAIR ACCORDINGLY. CHECK EVAPORATOR AND CONDENSER COIL CONDITION CLEAN ACCORDINGLY.

8. ( ) VISUALLY CHECK AIR PASSAGEWAYS INSIDE THE UNIT FOR OBSTRUCTION THAT MAY BLOCK AIRFLOW. CLEAN ACCORDINGLY.

9. ( ) LISTEN FOR ANY ABNORMAL NOISE OR VIBRATION. FIND THE CAUSES AND REPAIR THE MALFUNCTIONS.

10. ( ) CHECK FOR ERRATIC OPERATION SUCH AS THE FOLLOWING:

A. FAN CYCLING: OPERATING ON AND OFF QUICKLY. REPAIR IF NEEDED.

B. COMPRESSOR CYCLING: OPERATING ON AND OFF MORE THAN EVERY THREE MINUTES. REPAIR IF NEEDED.

11. ( ) TEST SMOKE DETECTOR FOR PROPER OPERATIONS AND CLEAN FILTER.

12. ( ) CHECK ALL MOUNTING BOLTS TO THE PASSENGER BOARDING BRIDGE FOR LOOSENESS, AND TIGHTEN AS NECESSARY.

13. ( ) CHECK MOUNTING BOLTS TO THE DUCT BASKET AND HOSE BRACKETS, AND TIGHTEN AS NECESSARY.

14. ( ) CHECK CASTERS ON THE DUCT BASKET, AND REPAIR OR REPLACE AS NECESSARY.

15. ( ) CHECK SUPPLY HOSES FOR HOLES, TEARS, ABRASION, WEAR OR LEAKS. REPAIR OR REPLACE AS NEEDED.

16. ( ) CHECK CONDENSATE SYSTEM TO VERIFY PROPER OPERATIONS.

17. ( ) CHECK ALL WIRE CONNECTIONS FOR TIGHTNESS.

18. ( ) CHECK FAN HUB TO MOTOR SHAFT FOR TIGHTNESS. RE-TORQUE HUB SET SCREWS TO MOTOR SHAFT IF NECESSARY.

19. ( ) CHECK GENERAL CONDITION OF FAN BLADE ASSEMBLY, AND REPLACE IF NECESSARY.

20. ( ) CHECK ALL MAGNETIC CONTACTORS FOR ABNORMAL WEAR. REPAIR OR REPLACE AS NEEDED.

21. ( ) LUBRICATE FAN BEARINGS. AVOID MIXING GREASES WITH DIFFERENT BASES IN THE UNIT. THEY COULD BE INCOMPATIBLE AND RESULT IN RAPID DETERIORATION OR BREAKING DOWN OF THE GREASE AND VOID THE UNITS WARRANTY. WHEN RE-LUBRICATING USE SUFFICIENT QUANTITY OF GREASE TO PURGE THE SEALS. ROTATE THE MOTOR SHAFT DURING RE-LUBRICATION WHERE GOOD SAFETY PRACTICE PERMITS. ALWAYS LUBRICATE BEARINGS PRIOR TO EXTENDED SHUT-DOWN OR STORAGE.

22. ( ) PERFORM APPLICABLE SEASONAL CHECKS.



TERMINAL JETWAY MONTHLY PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-JETWAYS

EQUIPMENT: JETWAYS

PM TASK: OSC-ME-001 / JWY-028

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY JOHN WAYNE AIRPORT

CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY

CONTACT PERSON:

3. REVIEW JETWAY SYSTEMS O&M MANUAL.

TOOLS AND MATERIALS:

1. CONTRACTOR'S DISCRETION IN ADDITION TO:

A. ( ) LUBRICATIONS SPECIFICATION NUMBER 1

MOBIL GREASE SPECIAL

MOBIL OIL COMPANY (OR EQUIVALENT)

B. ( ) LUBRICATION SPECIFICATION NUMBER 2

VECTRA OIL NO. 2

MOBIL OIL COMPANY (OR EQUIVALENT)

C. ( ) LUBRICATION SPECIFICATION NUMBER 3

DELVAC 1130

MOBIL OIL COMPANY (OR EQUIVALENT LIGHT GRADE OIL)

NOTE: ALL JETWAY MOTORS AND GEARBOXES ARE LUBRICATED FOR LIFE AND REQUIRE NO ATTENTION.

WORK INSTRUCTIONS:

1. ( ) MANIPULATE THE ROTUNDA AND SLOPE LIMIT SWITCHES BY HAND TO INSURE THEY WORK PROPERLY.

2. ( ) CHECK CAB ROTATION BY ROTATING CAB FULL LEFT AND RIGHT.

3. ( ) CHECK CANOPY CLOSURE OPERATION.

A. ( ) LEFT AND RIGHT EXTENDED - CLUTCH SHOULD CLICK AT FULL EXTENSION. INSURE RED CANOPY INDICATOR LIGHT ILLUMINATES WHEN CANOPY NOT FULLY UP AND STOWED.

B. ( ) LEFT AND RIGHT RAISE - INSURE MOTOR STOPS RUNNING WHEN FULL UP.

C. ( ) AS NEEDED LUBRICATE ACTUATOR PIVOT POINT, LOWER ACTUATOR ARM PIVOT POINT, LOWER ACTUATOR ARM BUSHINGS, PIVOT BLOCK AND HINGES.

D. ( ) CHECK CONDITION OF CANOPY MATERIAL, PADS, LACINGS AND SUPPORT STRUCTURE.

4. ( ) HORIZONTAL DRIVE.

A. ( ) EXTEND AND RETRACT THE BRIDGE INSURING BOTH 3' SLOW DOWNS ARE OPERATIONAL.

B. ( ) INSURE BRIDGE STOPS BEFORE REACHING EACH MECHANICAL STOP.

C. ( ) INSURE TRAVEL WARNINGS BELL IS OPERATING DURING ALL MOVEMENTS.

5. ( ) CHECK ROTUNDA SINK RING AND HOLD DOWN CLAMPS FOR SECURITY IN MOUNTING.

A. ( ) AS NEEDED LIBERALLY LUBRICATE ALL GREASE POINTS ON ROTUNDA.

6. ( ) REMOVE HORIZONTAL SWING LIMITS AND EXERCISE BRIDGE THROUGH HORIZONTAL SWING AS MUCH AS POSSIBLE.

7. ( ) REINSTALL HORIZONTAL SWING LIMIT.

B. ( ) OPERATE JETBRIDGE TO ITS HORIZONTAL SWING LIMITS.

8. ( ) VERTICAL DRIVE.

A. ( ) RAISE AND LOWER JETBRIDGE, INSURING SMOOTH OPERATION, TO THE TOP AND BOTTOM PRESET LIMITS.

9. ( ) AS NEEDED LUBRICATE COLUMN DRIVE SCREW, STARTING WITH JETBRIDGE AT THE BOTTOM. AS THE JETBRIDGE RISES TO THE TOP, SQUIRT OIL MIXTURE INTO CUP. UPON REACHING THE TOP, EXERCISE THE JETBRIDGE UP AND DOWN ENOUGH TIMES TO INSURE EVEN DISTRIBUTION OF THE OIL MIXTURE ON THE SCREW.

10. ( ) AS NEEDED LUBRICATE THE THRUST BEARING AND EXERCISE THE JETBRIDGE UP AND DOWN.

B. ( ) INSURE EACH VERTICAL LIFT COLUMN FAULT LIMIT SWITCH IS OPERATIONAL. CHECK ONLY ONE SWITCH AT A TIME.

11. ( ) INSPECT OPERATOR CONSOLE AND POWER PANEL.

A. ( ) CLEAN CONSOLE, WINDOWS AND MIRRORS.

B. ( ) INSURE ALL SWITCHES AND LIGHTS ARE OPERATIONAL. REPLACE ANY DEFECTIVE LAMPS.

C. ( ) CHECK FOR MOISTURE OR RUST.

D. ( ) CHECK ALL PRINTED CIRCUIT BOARDS, WIRE CONNECTIONS AND OTHER COMPONENTS FOR SECURITY. REPAIR OR REPLACE DAMAGED WIRING. CHECK AND REPLACE FANS, IF NEEDED.

E. ( ) CHECK FOR EVIDENCE OF ARCHINGS OR PITTING.

12. ( ) CHECK ROTUNDA AND CAB CURTAINS FOR SECURITY AND PROPER TIGHTNESS.

A. ( ) AS NEEDED LUBRICATE ALL LUBRICATION POINTS ON CURTAIN DRUMS.

B. ( ) AS NEEDED LUBRICATE CAB ROTATION DRIVE CHAIN AND

SPROCKETS.

C. ( ) CHECK ROLLUP DOOR FOR EASE OF OPERATION AND CLEANLINESS.

13. ( ) AUTOLEVEL.

A. ( ) INSURE SECURITY OF THE WHEEL AND ALL SCREWS, BOLTS AND COMPONENTS.

B. ( ) INSURE WHEEL AND ARM TRAVEL SMOOTHLY.

C. ( ) ENGAGE AUTOLEVEL AND INSURE SYSTEM WILL SHUT OFF WHEN TRAVELING UP AND DOWN AFTER APPROXIMATELY 5 SECONDS.

D. ( ) INSURE AUTOLEVEL ALARM AND LIGHT ARE OPERATIONAL.

14. ( ) CHECK ALL EXPOSED POWER AND CONTROL CABLES AND WATER LINES FOR DETERIORATION, GENERAL CONDITION AND SECURITY.

A. ( ) CHECK SECURITY OF MOUNTING OF CABLE TROLLEY UNITS. TIGHTEN AS NEEDED.

15. ( ) CHECK TUNNEL EQUALIZATION CABLE ON 3 TUNNEL JETBRIDGE.

A. ( ) AS NEEDED LUBRICATE SHEAVE RODS, CABLE TENSION RODS, CABLE GUIDE ROLLERS AND SHEAVES.

16. ( ) CHECK AND LUBRICATE AS NEEDED THE CABLE LIFTING DEVICE (SCISSORS) HINGES.

A. ( ) INSURE HEIGHT POTENTIOMETER COVER PROPERLY INSTALLED.

17. ( ) CHECK TIRES FOR GENERAL CONDITION AND PROPER AIR PRESSURE.

18. ( ) CHECK JETPOWER CABLE FOR GENERAL CONDITION AND OPERATION.

A. ( ) INSURE ALL PUSH BUTTON SWITCHES ARE OPERATIONAL.

B. ( ) CHECK NOSE OF POWER CABLE.

19. ( ) JETPOWER.

A. ( ) CHECK POWER CABLE HOIST ASSEMBLY OPERATION.

B. ( ) LUBE DRUM BEARING AS NEEDED.

C. ( ) CHECK CONDITION OF BANANA CLIPS AND HOOKS.

D. ( ) INSURE ALL JETPOWER LIGHTING IS OPERATIONAL.

E. ( ) INSURE OUTPUT OF UNIT WITHIN SPECIFIED GUIDELINES.

20. ( ) INSPECT CABINET ASSEMBLY FOR DENTS, CHIPPED OR GOUGED PAINT, LOOSE OR MISSING SCREWS, NUTS OR WASHERS BROKEN LATCHES OR WARPED DOORS. TOUCH UP PAINT IF NECESSARY. TIGHTEN LOOSE SCREWS AND NUTS. REPLACE MISSING SCREWS AND NUTS, REPLACE ANY MISSING SCREWS, NUTS OR WASHERS.

SPROCKETS.

C. ( ) CHECK ROLLUP DOOR FOR EASE OF OPERATION AND CLEANLINESS.

13. ( ) AUTOLEVEL.

A. ( ) INSURE SECURITY OF THE WHEEL AND ALL SCREWS, BOLTS AND COMPONENTS.

B. ( ) INSURE WHEEL AND ARM TRAVEL SMOOTHLY.

C. ( ) ENGAGE AUTOLEVEL AND INSURE SYSTEM WILL SHUT OFF WHEN TRAVELING UP AND DOWN AFTER APPROXIMATELY 5 SECONDS.

D. ( ) INSURE AUTOLEVEL ALARM AND LIGHT ARE OPERATIONAL.

14. ( ) CHECK ALL EXPOSED POWER AND CONTROL CABLES AND WATER LINES FOR DETERIORATION, GENERAL CONDITION AND SECURITY.

A. ( ) CHECK SECURITY OF MOUNTING OF CABLE TROLLEY UNITS. TIGHTEN AS NEEDED.

15. ( ) CHECK TUNNEL EQUALIZATION CABLE ON 3 TUNNEL JETBRIDGE.

A. ( ) AS NEEDED LUBRICATE SHEAVE RODS, CABLE TENSION RODS, CABLE GUIDE ROLLERS AND SHEAVES.

16. ( ) CHECK AND LUBRICATE AS NEEDED THE CABLE LIFTING DEVICE (SCISSORS) HINGES.

A. ( ) INSURE HEIGHT POTENTIOMETER COVER PROPERLY INSTALLED.

17. ( ) CHECK TIRES FOR GENERAL CONDITION AND PROPER AIR PRESSURE.

18. ( ) CHECK JETPOWER CABLE FOR GENERAL CONDITION AND OPERATION.

A. ( ) INSURE ALL PUSH BUTTON SWITCHES ARE OPERATIONAL.

B. ( ) CHECK NOSE OF POWER CABLE.

19. ( ) JETPOWER.

A. ( ) CHECK POWER CABLE HOIST ASSEMBLY OPERATION.

B. ( ) LUBE DRUM BEARING AS NEEDED.

C. ( ) CHECK CONDITION OF BANANA CLIPS AND HOOKS.

D. ( ) INSURE ALL JETPOWER LIGHTING IS OPERATIONAL.

E. ( ) INSURE OUTPUT OF UNIT WITHIN SPECIFIED GUIDELINES.

20. ( ) INSPECT CABINET ASSEMBLY FOR DENTS, CHIPPED OR GOUGED PAINT, LOOSE OR MISSING SCREWS, NUTS OR WASHERS BROKEN LATCHES OR WARPED DOORS. TOUCH UP PAINT IF NECESSARY. TIGHTEN LOOSE SCREWS AND NUTS. REPLACE MISSING SCREWS AND NUTS, REPLACE ANY MISSING SCREWS, NUTS OR WASHERS.

5. ( ) CHECK SECURITY OF MOUNTING OF CAB ROTATION CHAIN AND CHAIN SPROCKETS.

6. ( ) WHEEL CARRIAGE AND SWIVEL COLUMN. AS NEEDED LIBERALLY LUBRICATE THE FOLLOWING WITH THE PROPER LUBRICANT.

A. ( ) DRIVE CHAINS

B. ( ) TURRET BEARING

C. ( ) BUSHINGS AND TRUNNION PIN

D. ( ) WHEEL BEARINGS EACH TIME WHEEL ASSEMBLY IS REMOVED

7. ( ) CHECK AND ADJUST AS NEEDED ROTUNDA DOWN CAB FLOOR ALIGNMENT.

8. ( ) INSURE TUNNEL FLOOR GUTTERS AND DRAINS ARE NOT CLOGGED.

9. ( ) FOLLOWING SERVICE BULLETIN #84, LOCATED IN JETBRIDGE MANUAL, CHECK THE ROLLER CHAIN COUPLING MOUNTED BELOW THE VERTICAL DRIVE MOTORS FOR THE FOLLOWING.

A. ( ) FAILURE OF THE MASTER LINK SPRING CLIP

B. ( ) FAILURE OF MASTER LINK COTTER PINS.

C. ( ) CRACKED OR BROKEN LINKS IN THE CHAIN COUPLING

10. ( ) ROTUNDA - CHECK, ADJUST AND LUBRICATE THE FOLLOWING AS NEEDED.

A. ( ) ROTUNDA PIVOT BEARING

B. ( ) ROTUNDA GUIDE PADS LOCATED AT THE TOP OF THE "A" TUNNEL

C. ( ) SECURITY OF MOUNTING OF PIVOT BOLTS AT BASE OF "A" TUNNEL

11. ( ) SERVICE STAIRS - CHECK AND TIGHTEN STAIRS AND TOP PIVOT BOLTS OF STAIRS AS NEEDED.

A. ( ) INSPECT AND LUBRICATE AS NEEDED THE WHEELS AND CASTORS AT BASE OF STAIRS

12. ( ) FOLLOWING SERVICE BULLETIN #90, LOCATED IN JETBRIDGE MANUAL. INSPECT THE CROSS BEAM FLANGE AND BEARING PLATE FOR THE FOLLOWING:

A. ( ) CLEAN AREAS TO BE INSPECTED.

B. ( ) CHECK FOR CRACKS IN WELD AREA.

13. ( ) GPU ASSEMBLY INPUT POWER- INSPECT ELECTRICAL WIRING FOR BROKEN SOLDER CONNECTIONS, EVIDENCE OR SHORTING, PEELED INSULATION AND GENERAL DETERIORATION. REPAIR OR REPLACE DAMAGED WIRING. CHECK AND REPLACE FANS IF NEEDED.

14. ( ) GPU OUTPUT POWER- INSPECT ALL CONTACTORS FOR LOOSE MOUNTING SCREWS DEFECTIVE CONNECTIONS,

EVIDENCE OF PHYSICAL DAMAGE, GENERAL DETERIORATION. TIGHTEN MOUNTING SCREWS, IF NECESSARY. REPAIR ANY DEFECTIVE ELECTRICAL CONNECTIONS. REPLACE ANY DEFECTIVE RELAY OR OUTPUT CONTACTOR. CHECK OR REPLACE FANS, IF NEEDED. CHECK AND REPLACE INDICATOR BULBS.

TERMINAL JETWAY QUARTERLY POTABLE FILTER CHANGE

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-JETWAYS

EQUIPMENT: JETWAYS

PM TASK: OSC-ME-032 / JWY-091A

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY JOHN WAYNE AIRPORT.  
CONTRACT ADMINISTERED BY: JWA  
CONTRACT HELD BY:  
CONTACT PERSON

3. REVIEW JETWAY SYSTEMS O&M MANUAL.

TOOLS AND MATERIALS:

1. CONTRACTOR'S DISCRETION IN ADDITION TO:

A. ( ) RB50-BB PLEATED POLYESTER FILTER (50M)

B. ( ) PUMP AND DRUM ASSEMBLY FOR FLUSHING

WORK INSTRUCTIONS:

1. ( ) REMOVE AND REPLACE WATER FILTERS WITH NEW ELEMENT  
PART #155053-03. FLUSH LINE WITH CHLORIDE  
SOLUTION AS NEEDED.

TERMINAL JETWAY FIVE YEAR PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-JETWAYS

EQUIPMENT: JETWAYS

PM TASK: OSC-ME-005 / JWY-1830

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY JOHN WAYNE AIRPORT  
CONTRACT ADMINISTERED BY: JWA  
CONTRACT HELD BY  
CONTACT PERSON:

3. INITIAL INSPECTION AFTER 10 YEARS OF SERVICE.

4. REVIEW JETWAY SYSTEMS O&M MANUAL.

TOOLS AND MATERIALS:

1. CONTRACTOR'S DISCRETION IN ADDITION TO:

A. ( ) DYE PENETRANT

WORK INSTRUCTIONS:

1. ( ) AFTER AN INITIAL 10 YEARS OF SERVICE, INSPECT THE LIFT  
COLUMN BALL SCREWS FOR EXCESSIVE CORROSION, CRACKING,  
PITTING, GOUGING, BRINELLING, OR UNUSUAL WEAR OF  
GROOVES.

A. ( ) REPEAT EVERY 5 YEARS AFTER INITIAL INSPECTION.

TERMINAL JETWAY SEMI-ANNUAL PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-JETWAYS

EQUIPMENT: JETWAYS

PM TASK: OSC-ME-033 / JWY-184

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY JOHN WAYNE AIRPORT

CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY:

CONTACT PERSON:

3. REVIEW JETWAY SYSTEMS O&M MANUAL.

TOOLS & MATERIALS:

1. CONTRACTOR'S DISCRETION IN ADDITION TO:

A. STANDARD TOOLS BASIC

B. FEELER GAUGE

WORK INSTRUCTIONS:

1. () INSPECT THE STATIC FREQUENCY CONVERTER ENCLOSURE CABINET ASSEMBLY FOR DENTS, CHIPPED OR GOUGED PAINT, LOOSE OR MISSING SCREWS, NUTS, OR WASHERS, BROKEN LATCHES OR WARPED DOORS. TOUCH UP PAINT, IF NECESSARY, TIGHTEN LOOSE SCREWS AND NUTS, REPLACE ANY MISSING SCREWS, NUTS OR WASHERS.

2. () INSPECT ALL CONTROLS OF THE PRINTED CIRCUIT BOARDS FOR EASE OF OPERATION. DURING OPERATION CHECK OPERATION OF ALL DISPLAYS. REPLACE ANY DEFECTIVE LAMPS.

A. INSPECT PRINTED CIRCUIT BOARDS A1, A2, A3, AND A4 GENERAL CONDITION.

B. INSPECT ELECTRICAL WIRING FOR LOOSE CONNECTIONS, EVIDENCE OF SHORTING, PEELED INSULATION AND GENERAL DETERIORATION. REPLACE OR REPAIR DAMAGED WIRING.

C. CHECK AND REPLACE FANS, IF NEEDED.

3. () INSPECT ASSEMBLY INPUT POWER ELECTRICAL WIRING FOR BROKEN SOLDER CONNECTIONS, EVIDENCE OF SHORTING, PEELED INSULATION AND GENERAL DETERIORATION. REPAIR OR REPLACE DAMAGED WIRING.

A. CHECK OR REPLACE FANS, IF NEEDED.

B. CHECK AND REPLACE INDICATOR BULBS.

4. () INSPECT OUTPUT POWER CONTACTORS FOR LOOSE MOUNTING SCREWS, DEFECTIVE CONNECTIONS, EVIDENCE OR PHYSICAL DAMAGE, GENERAL DETERIORATION.

A. TIGHTEN MOUNTING SCREWS, IF NECESSARY.

B. REPAIR ANY DEFECTIVE ELECTRICAL CONNECTIONS.

C. REPLACE ANY DEFECTIVE RELAY OR OUTPUT CONTACTOR.

D. CHECK OR REPLACE FANS, IF NEEDED.

E. CHECK AND REPLACE INDICATOR BULBS.



5. ( ) INSPECT VERTICAL COLUMN SLIDE PADS USING CHAPTER 2, SECTION 2 PROCEDURES.

A. ( ) TEMPORARILY INSTALL IRON WEDGES AT THE BASE OF THE OUTER TUBE BEFORE REMOVING THE SLIDING PAD COVERS.

6. ( ) CHECK THE HORIZONTAL DRIVE CHAINS AND SPROCKETS FOR SIGNS OF STREAKING, CRACKING, RUSTING OR PITTING.

7. ( ) CHECK THE CAB FLOOR ROTATION CHAIN FOR SIGNS OF STREAKING, CRACKING, RUSTING OR PITTING.

8. ( ) INSPECT THE FOLLOWING BRAKE MOTORS USING CHAPTER 2, SECTION 6 PROCEDURES OF THE JETWAY SYSTEMS O & H MANUAL.

A. ( ) VERTICAL DRIVE

B. ( ) HORIZONTAL DRIVE

C. ( ) CAB ROTATION

9. ( ) INSPECT JETBRIDGE FOR RUST AND REPAIR WHERE NEEDED.

TERMINAL JETWAY SEMI-ANNUAL SERVICE PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-JETWAYS

EQUIPMENT: JETWAYS

PM TASK: OSC-ME-011 / JWY-184A

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY JOHN WAYNE AIRPORT  
CONTRACT ADMINISTERED BY: IWA  
CONTRACT HELD BY  
CONTACT PERSON:

3. REVIEW JETWAY SYSTEMS O&M MANUAL.

TOOLS AND MATERIALS:

1. CONTRACTOR'S DISCRETION IN ADDITION TO:

A. ☐ PRESSURE WASHER

B. ☐ DEGREASER CLEANER

WORK INSTRUCTIONS:

1. ☐ WASH JETBRIDGE BI-ANNUALLY.

## TERMINAL JETWAY DAILY INSPECTION PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-JETWAYS

EQUIPMENT: JETWAYS

PM TASK: OSC-ME-039 / JWY-007

## SPECIAL INSTRUCTIONS:

1. REVIEW MAUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.
2. CONTRACT ADMINISTERED BY JOHN WAYNE AIRPORT  
CONTRACT ADMINISTERED BY: JWA  
CONTRACT HELD BY:  
CONTACT PERSON
3. REVIEW JETWAY SYSTEMS O&M MANUAL.

## TOOLS AND MATERIALS:

1. CONTRACTOR'S DISCRETION.

## WORK INSTRUCTIONS:

1. ( ) VISUALLY INSPECT ALL FLOORING, CARPETING, CARPET EDGING, TRANSITION POINTS, RUBBER FLOORING AND DOOR FLOOR JAMS FOR WEAR OR LOOSE PIECES. REPAIR IMMEDIATELY.
2. ( ) VISUALLY INSPECT CEILING PANELS, WALLS, MOULDING AND LIGHTING. REPAIR OR REPLACE AS NEEDED.
3. ( ) VISUALLY INSPECT ROTUNDA AND CAB CURTAINS FOR TIGHTNESS AND SECURITY. REPAIR AS NEEDED.
4. ( ) BRIEFLY OPERATE ALL CONTROLS AND INSURE ALL INDICATORS AND ALARMS ARE OPERATIONAL. REPAIR OR REPLACE AS NEEDED.
5. ( ) INSURE AUTOLEVEL SYSTEM IS OPERATIONAL. REPAIR IMMEDIATELY.
6. ( ) VISUALLY INSPECT ALL DOORS FOR SECURITY AND OPERATION. REPAIR AS NEEDED.
7. ( ) VISUALLY INSPECT SERVICE STAIRS FOR SECURITY AND OPERATION. REPAIR AS NEEDED.
8. ( ) VISUALLY INSPECT EXTERIOR ELECTRICAL CONTROL, POWER CABLES, CABLE TROLLEY SYSTEM AND WIRING FOR CLEARANCE, SECURITY, MALFUNCTION OR DAMAGE. REPAIR OR REPLACE AS NEEDED.
9. ( ) VISUALLY INSPECT POSITIONING AND SECURITY OF LIMIT SWITCHES. REPAIR OR REPLACE AS NEEDED.
10. ( ) VISUALLY INSPECT CAB FLOOR TO AIRCRAFT BUMPER PAD AND CANOPY PADS FOR SECURITY. REPAIR OR REPLACE AS NEEDED.
11. ( ) VISUALLY INSPECT JETPOWER CABLE SYSTEM. REPAIR OR REPLACE AS NEEDED.
12. ( ) VISUALLY INSPECT POTABLE WATER SYSTEM FOR LEAKS. REPAIR AS NEEDED.
13. ( ) JETBRIDGE COMPLETION LIST (SEE BELOW).

TERMINAL RAMP & JETWAY DOOR LUBRICATION QUARTERLY PM

THIS PM SHEET LINKED TO: TERMINAL

MACHINE I.D.: TL-DR

EQUIPMENT: DOORS

PM TASK: JWA-ME-016 / DR-091

SPECIAL INSTRUCTIONS:  
NONE

TOOLS & MATERIALS:  
1. STANDARD TOOLS - BASIC  
2. GREASELESS AEROSOL LUBRICANT (SEE FACILITIES MECHANICS FOR LUBRICANT).

WORK INSTRUCTIONS:

1. ( ) LUBRICATE HINGES ON STAIRWAY RAMP DOORS AND JETWAY TERMINAL ENTRANCE DOORS. USE A GREASELESS AEROSOL LUBRICANT.
2. ( ) CHECK AND ADJUST DOOR CLOSERS IF NECESSARY ON STAIRWAY RAMP DOORS AND JETWAY TERMINAL ENTRANCE DOORS.

REFERENCE INFORMATION:  
1. JWA TASK DESCRIPTION 40

## TERMINAL JETWAY DAILY INSPECTION PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-JETWAYS

EQUIPMENT: JETWAYS

PM TASK: OSC-ME-039 / JWY-007

## SPECIAL INSTRUCTIONS:

1. REVIEW MAUFACTURER'S INSTRUCTIONS, WARNINGS AND CAUTIONS.

2. CONTRACT ADMINISTERED BY JOHN WAYNE AIRPORT

CONTRACT ADMINISTERED BY: JWA

CONTRACT HELD BY

CONTACT PERSON :

3. REVIEW JETWAY SYSTEMS O&amp;M MANUAL.

## TOOLS AND MATERIALS:

1. CONTRACTOR'S DISCRETION.

## WORK INSTRUCTIONS:

1. ( ) VISUALLY INSPECT ALL FLOORING, CARPETING, CARPET EDGING, TRANSITION POINTS, RUBBER FLOORING AND DOOR FLOOR JAMS FOR WEAR OR LOOSE PIECES. REPAIR IMMEDIATELY.

2. ( ) VISUALLY INSPECT CEILING PANELS, WALLS, MOULDING AND LIGHTING. REPAIR OR REPLACE AS NEEDED.

3. ( ) VISUALLY INSPECT ROTUNDA AND CAB CURTAINS FOR TIGHTNESS AND SECURITY. REPAIR AS NEEDED.

4. ( ) BRIEFLY OPERATE ALL CONTROLS AND INSURE ALL INDICATORS AND ALARMS ARE OPERATIONAL. REPAIR OR REPLACE AS NEEDED.

5. ( ) INSURE AUTOLEVEL SYSTEM IS OPERATIONAL. REPAIR IMMEDIATELY.

6. ( ) VISUALLY INSPECT ALL DOORS FOR SECURITY AND OPERATION. REPAIR AS NEEDED.

7. ( ) VISUALLY INSPECT SERVICE STAIRS FOR SECURITY AND OPERATION. REPAIR AS NEEDED.

8. ( ) VISUALLY INSPECT EXTERIOR ELECTRICAL CONTROL, POWER CABLES, CABLE TROLLEY SYSTEM AND WIRING FOR CLEARANCE, SECURITY, MALFUNCTION OR DAMAGE. REPAIR OR REPLACE AS NEEDED.

9. ( ) VISUALLY INSPECT POSITIONING AND SECURITY OF LIMIT SWITCHES. REPAIR OR REPLACE AS NEEDED.

9. ( ) VISUALLY INSPECT CAB FLOOR TO AIRCRAFT BUMPER PAD AND CANOPY PADS FOR SECURITY. REPAIR OR REPLACE AS NEEDED.

11. ( ) VISUALLY INSPECT JETPOWER CABLE SYSTEM. REPAIR OR REPLACE AS NEEDED.

12. ( ) VISUALLY INSPECT POTABLE WATER SYSTEM FOR LEAKS. REPAIR AS NEEDED.

## PARKING TSA AREA AIR HANDLERS ANNUAL PM

THIS PM SHEET LINKED TO: PARKING

ROUTE I.D.: RT-AHU-PARK

EQUIPMENT: AIR HANDLING UNITS

B1-AHU-10

B1-AHU-11

A1-AHU-12

A1-AHU-13

LOCATION: TSA AREA

PM TASK: JWA-ME-110 / AHU-366PARK

## SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S MAINTENANCE INSTRUCTIONS.
2. SCHEDULE SHUTDOWNS WITH OPERATING PERSONNEL, AS NEEDED.
3. OPEN, LOCK AND TAG LOCAL SAFETY DISCONNECT SWITCH.

## TOOLS &amp; MATERIALS:

1. TOOL GROUPS A & B
2. TACHOMETER
3. GREASE GUN AND OILER
4. PRESSURE WASHER
5. VACUUM
6. FIN COMB
7. CLEANING TOOLS AND MATERIALS
8. SAFETY GOGGLES
9. LUBRICANTS

## WORK INSTRUCTIONS:

1. ( ) CHANGE BOX FILTERS.
2. ( ) INSPECT SUPPLY AND RETURN FAN BLADES AND BLOWER WHEEL FOR DUST BUILDUP AND CLEAN IF NECESSARY. CHECK ALL ELECTRICAL WIRING FOR CONDITIONS. TIGHTEN ALL CONNECTIONS.\*\*

\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER NUMBER J6Y00326 IF ESTIMATED LABOR AND MATERIALS COST IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR SUPERVISOR.\*\*

3. ( ) CHECK ALL FAN BLADES AND MOVING PARTS FOR EXCESSIVE WEAR. INSPECT THE UNIT CASING AND ACCESSORIES FOR CHIPPING OR CORROSION. IF DAMAGE IS FOUND CLEAN AND REPAINT WITH CONSTRUCTION GRADE RUST RESISTANT ZINC CHROMATE PRIMER AND PAINT.\*\*

\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER NUMBER J6Y00326 IF ESTIMATED LABOR AND MATERIALS COST IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR SUPERVISOR.\*\*

4. ( ) INSPECT ALL RPM'S TO DESIGN SPECIFICATIONS. CLEAN FAN

WHEELS AND FAN SHAFT. REMOVE RUST FROM FAN SHAFT WITH AN EMERY CLOTH AND RECOAT THE SHAFT WITH LUBRICANT. INSPECT LOWER FAN FRAME AND SPRING CONDITIONS, CHECK FOR BROKEN SPRINGS UNDER FRAME AND PAD. SERVICE PER MANUFACTURER'S MAINTENANCE INSTRUCTIONS.

5. ( ) CHECK BEARING COLLAR SET SCREWS ON FAN SHAFT TO MAKE SURE THEY ARE TIGHT.

6. ( ) INSPECT DAMPER MOTORS AND LINKAGE FOR PROPER OPERATION. ADJUST INLET LINKAGES AND SETSCREWS ON VANES FOR ALIGNMENT, TIGHTNESS AND OPERATION.

7. ( ) LUBRICATE MECHANICAL CONNECTIONS OF DAMPERS.

8. ( ) CLEAN ALL COOLING COILS BY BRUSHING, BLOWING, VACUUMING, AND PRESSURE WASHING AS NECESSARY.

9. ( ) CHECK ALL COILS FOR LEAKING, TIGHTNESS OF FITTINGS.

10. ( ) USE FIN COMB TO STRAIGHTEN COIL FINS. MEASURE INLET AND OUTLET TEMPERATURES FOR COLD COIL EFFICIENCIES.

11. ( ) FLUSH AND CLEAN CONDENSATE PANS AND DRAINS.

12. ( ) INSPECT BELTS FOR WEAR, ADJUST TENSION OR ALIGNMENT, AND REPLACE BELTS WHEN NECESSARY.\*\*

\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER NUMBER J6Y00326 IF ESTIMATED LABOR AND MATERIALS COST IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR SUPERVISOR.\*\*

13. ( ) CLEAN INTERIOR OF UNIT.

14. ( ) LUBRICATE ALL FAN SHAFT BEARINGS.

15. ( ) INSPECT LOCAL ELECTRICAL DISCONNECT. CHECK AND TIGHTEN ELECTRICAL CONTACTS AND CONNECTIONS.

#### WORK INSTRUCTIONS: MOTOR

1. ( ) INSPECT VENTILATION PORTS FOR SOIL ACCUMULATION AND CLEAN.

2. ( ) CLEAN EXTERIOR OF MOTOR SURFACES OF SOIL ACCUMULATION .

3. ( ) LUBRICATE BEARINGS:

4. ( ) CHECK MOTOR WINDINGS FOR ACCUMULATION OF SOIL. BLOW OUT WITH AIR IF REQUIRED. PERFORM ELECTRICAL TEST OF MOTOR WINDINGS TO CONFIRM MANUFACTURER'S SPECIFICATIONS.\*\*

\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER NUMBER J6Y00326 IF ESTIMATED LABOR AND MATERIALS COST IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR SUPERVISOR.\*\*

5. ( ) INSPECT HOLD DOWN BOLTS AND GROUNDING STRAPS FOR TIGHTNESS.

TERMINAL / AIR HANDLERS ANNUAL PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-AHU-TERM

EQUIPMENT: AIR HANDLING UNIT

PM TASK: JWA-ME-056 / AHU-366

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S MAINTENANCE INSTRUCTIONS.
2. SCHEDULE SHUTDOWNS WITH OPERATING PERSONNEL, AS NEEDED.
3. OPEN, LOCK AND TAG LOCAL SAFETY DISCONNECT SWITCH.

TOOLS & MATERIALS:

1. TOOL GROUPS A & B
2. TACHOMETER
3. GREASE GUN AND OILER
4. PRESSURE WASHER
5. VACUUM
6. FIN COMB
7. CLEANING TOOLS AND MATERIALS
8. SAFETY GOGGLES
9. LUBRICANTS

WORK INSTRUCTIONS:

1. ( ) CHANGE BOX FILTERS.
2. ( ) INSPECT SUPPLY AND RETURN FAN BLADES AND BLOWER WHEEL FOR DUST BUILDUP AND CLEAN IF NECESSARY. CHECK ALL ELECTRICAL WIRING FOR CONDITIONS. TIGHTEN ALL CONNECTIONS.\*\*

\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER NUMBER J1Y00326 IF ESTIMATED LABOR AND MATERIALS COST IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR SUPERVISOR.\*\*

3. ( ) CHECK ALL FAN BLADES AND MOVING PARTS FOR EXCESSIVE WEAR. INSPECT THE UNIT CASING AND ACCESSORIES FOR CHIPPING OR CORROSION. IF DAMAGE IS FOUND CLEAN AND REPAINT WITH CONSTRUCTION GRADE RUST RESISTANT ZINC CHROMATE PRIMER AND PAINT.\*\*

\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER NUMBER J1Y00326 IF ESTIMATED LABOR AND MATERIALS COST IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR SUPERVISOR.\*\*

4. ( ) INSPECT ALL RPM'S TO DESIGN SPECIFICATIONS. CLEAN FAN WHEELS AND FAN SHAFT. REMOVE RUST FROM FAN SHAFT WITH AN EMERY CLOTH AND RECOAT THE SHAFT WITH LUBRICANT. INSPECT LOWER FAN FRAME AND SPRING CONDITIONS, CHECK FOR BROKEN SPRINGS UNDER FRAME AND PAD. SERVICE PER MANUFACTURER'S MAINTENANCE INSTRUCTIONS.



TERMINAL / AIR HANDLERS ANNUAL PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-AHU-TERM

EQUIPMENT: AIR HANDLING UNIT

PM TASK: JWA-ME-056 / AHU-366

**SPECIAL INSTRUCTIONS:**

1. REVIEW MANUFACTURER'S MAINTENANCE INSTRUCTIONS.
2. SCHEDULE SHUTDOWNS WITH OPERATING PERSONNEL, AS NEEDED.
3. OPEN, LOCK AND TAG LOCAL SAFETY DISCONNECT SWITCH.

**TOOLS & MATERIALS:**

1. TOOL GROUPS A & B
2. TACHOMETER
3. GREASE GUN AND OILER
4. PRESSURE WASHER
5. VACUUM
6. FIN COMB
7. CLEANING TOOLS AND MATERIALS
8. SAFETY GOGGLES
9. LUBRICANTS

**WORK INSTRUCTIONS:**

1. ( ) CHANGE BOX FILTERS.
2. ( ) INSPECT SUPPLY AND RETURN FAN BLADES AND BLOWER WHEEL FOR DUST BUILDUP AND CLEAN IF NECESSARY. CHECK ALL ELECTRICAL WIRING FOR CONDITIONS. TIGHTEN ALL CONNECTIONS.\*\*

\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER NUMBER J1Y00326 IF ESTIMATED LABOR AND MATERIALS COST IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR SUPERVISOR.\*\*

3. ( ) CHECK ALL FAN BLADES AND MOVING PARTS FOR EXCESSIVE WEAR. INSPECT THE UNIT CASING AND ACCESSORIES FOR CHIPPING OR CORROSION. IF DAMAGE IS FOUND CLEAN AND REPAINT WITH CONSTRUCTION GRADE RUST RESISTANT ZINC CHROMATE PRIMER AND PAINT.\*\*

\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER NUMBER J1Y00326 IF ESTIMATED LABOR AND MATERIALS COST IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR SUPERVISOR.\*\*

4. ( ) INSPECT ALL RPM'S TO DESIGN SPECIFICATIONS. CLEAN FAN WHEELS AND FAN SHAFT. REMOVE RUST FROM FAN SHAFT WITH AN EMERY CLOTH AND RECOAT THE SHAFT WITH LUBRICANT. INSPECT LOWER FAN FRAME AND SPRING CONDITIONS, CHECK FOR BROKEN SPRINGS UNDER FRAME AND PAD. SERVICE PER MANUFACTURER'S MAINTENANCE INSTRUCTIONS.

TERMINAL / AIR HANDLERS ANNUAL PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-AHU-TERM

EQUIPMENT: AIR HANDLING UNIT

PM TASK: JWA-ME-056 / AHU-366

SPECIAL INSTRUCTIONS:

1. REVIEW MANUFACTURER'S MAINTENANCE INSTRUCTIONS.
2. SCHEDULE SHUTDOWNS WITH OPERATING PERSONNEL, AS NEEDED.
3. OPEN, LOCK AND TAG LOCAL SAFETY DISCONNECT SWITCH.

TOOLS & MATERIALS:

1. TOOL GROUPS A & B
2. TACHOMETER
3. GREASE GUN AND OILER
4. PRESSURE WASHER
5. VACUUM
6. FIN COMB
7. CLEANING TOOLS AND MATERIALS
8. SAFETY GOGGLES
9. LUBRICANTS

WORK INSTRUCTIONS:

1. ( ) CHANGE BOX FILTERS.

2. ( ) INSPECT SUPPLY AND RETURN FAN BLADES AND BLOWER WHEEL FOR DUST BUILDUP AND CLEAN IF NECESSARY. CHECK ALL ELECTRICAL WIRING FOR CONDITIONS. TIGHTEN ALL CONNECTIONS.\*\*

\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER NUMBER J1Y00326 IF ESTIMATED LABOR AND MATERIALS COST IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR SUPERVISOR.\*\*

3. ( ) CHECK ALL FAN BLADES AND MOVING PARTS FOR EXCESSIVE WEAR. INSPECT THE UNIT CASING AND ACCESSORIES FOR CHIPPING OR CORROSION. IF DAMAGE IS FOUND CLEAN AND REPAINT WITH CONSTRUCTION GRADE RUST RESISTANT ZINC CHROMATE PRIMER AND PAINT.\*\*

\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER NUMBER J1Y00326 IF ESTIMATED LABOR AND MATERIALS COST IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR SUPERVISOR.\*\*

4. ( ) INSPECT ALL RPM'S TO DESIGN SPECIFICATIONS. CLEAN FAN WHEELS AND FAN SHAFT. REMOVE RUST FROM FAN SHAFT WITH AN EMERY CLOTH AND RECOAT THE SHAFT WITH LUBRICANT. INSPECT LOWER FAN FRAME AND SPRING CONDITIONS, CHECK FOR BROKEN SPRINGS UNDER FRAME AND PAD. SERVICE PER MANUFACTURER'S MAINTENANCE INSTRUCTIONS.

TERMINAL AIR HANDLERS QUARTERLY PRIMARY FILTER PM

THIS PM SHEET LINKED TO: TERMINAL

ROUTE I.D.: RT-AHU-TERM

EQUIPMENT: AIR HANDLING UNIT #1 (ONE FOR EACH AIR HANDLER)

PM TASK: JWA-ME-055 / AHU-091

**SPECIAL INSTRUCTIONS:**

1. REVIEW MANUFACTURER'S MAINTENANCE INSTRUCTIONS.
2. OPEN, LOCK AND TAG LOCAL SAFETY DISCONNECT SWITCH.

**TOOLS & MATERIALS:**

1. 24X24X4 FILTERS
2. SAFETY GOGGLES
3. CLEANING TOOLS AND MATERIALS
4. RAGS & CLEANER

**WORK INSTRUCTIONS:**

- ### 1. ( ) INSPECT EVAPORATOR COILS

A. IF DIRTY;

a. CLEAN BY VACUMING THE COILS OR WASH BY HOSING.

B. IF EXTREMELY CLOGGED A STIFF BRUSH WILL NEED TO BE USED.

2. ( ) REPLACE ALL PRIMARY FILTERS
3. ( ) REPLACE BIOCIDES CONTROL DEVICES IN DRAIN PANS.

**\*\* CHARGE ALL REPAIR TIME TO STANDING JOB ORDER  
NUMBER J1Y00326 IF ESTIMATED LABOR AND MATERIALS COST  
IS LESS THAN 8 HOURS AND \$1,000.00. IF ESTIMATED  
COST OF LABOR AND MATERIALS EXCEEDS \$1,000.00 AND  
ESTIMATED LABOR IS GREATER THAN 8 HOURS AND MATERIAL  
COST IS GREATER THAN \$1,000.00 REFER WORK TO YOUR  
SUPERVISOR.\*\***

REFERENCE INFORMATION:

1. NONE

S	DA
	2000-01-01

## JOHN WAYNE AIRPORT

Gateway to Orange County, California



## Procedure Tasks

Printed: 6/13/2013 10:47 AM

## Report Criteria

Record(s) selected from an Explorer, Matrix, or Smart Link

Task No	Task Action	Target Hours	Average Hours
<b>GROUND POWER UNIT MONTHLY PM</b>			
5	EQUIPMENT	0	0
10	Ground Power Units manufactured by INET Airport Systems	0	0
11	Contract Administered by JWA	0	0
12	Contract Held By	0	0
13	Contact Person: I	0	0
15	SERVICE INTERVALS	0	0
20	The required service intervals depend largely on environmental conditions. The instructions given in this chapter apply to temperate zone environmental conditions where construction or wind-borne dust or other pollutants are not prevalent; servicing should be more frequent when operating conditions are severe.	0	0
30	WORK INSTRUCTIONS	0	0
40	STATIC FREQUENCY CONVERTER GPU ENCLOSURE: INSPECT THE CABINET ASSEMBLY FOR DENTS, CHIPPED OR GOUGED PAINT, LOOSE OR MISSING SCREWS, NUTS OR WASHERS, BROKEN LATCHES, OR WARPED DOORS. TOUCH UP PAINT, IF NECESSARY. TIGHTEN LOOSE SCREWS AND NUTS, REPLACE ANY MISSING SCREWS, NUTS OR WASHERS.	0	0
50	CONTROLS PRINTED CIRCUIT BOARDS: CHECK ALL CONTROLS FOR EASE OF OPERATION. DURING OPERATION, CHECK OPERATION OF ALL DISPLAYS. REPLACE ANY DEFECTIVE DISPLAY LAMPS. INSPECT PRINTED CIRCUIT BOARDS FOR A1, A2, A3 AND A4 GENERAL CONDITION. INSPECT ELECTRICAL WIRING FOR LOOSE CONNECTIONS, EVIDENCE OF SHORTING, PEELED INSULATION AND GENERAL DETERIORATION. REPAIR OR REPLACE DAMAGED WIRING. CHECK AND REPLACE FANS, IF NEEDED.	0	0
60	CLEANING	0	0
70	Avoid accumulation of dirt, dust, moisture and other foreign matter within an enclosure or at ventilation openings. Clean the control circuitry monthly by vacuum cleaner and by wiping away any accumulated moisture or lubricating matter with a cloth. Grease or heavy dirt deposits may be removed with cleaning solvent conforming to Federal Specification P.D. 680. Ensure GPU air intake and exhaust grilles remain clean to ensure proper cooling of the cabinet.	0	0
<b>Grand Total (12 Records):</b>		<b>0</b>	<b>0</b>

## JOHN WAYNE AIRPORT

Orange County, California



## Procedure Tasks

Printed: 6/13/2013 10:47 AM

## Report Criteria

Record(s) selected from an Explorer, Matrix, or Smart Link

Task No	Task Action	Target Hours	Average Hours
<b>GROUND POWER UNIT QUARTERLY PM</b>			
5	EQUIPMENT	0	0
10	Ground Power Units manufactured by INET Airport Systems	0	0
11	Contract Administered by: JWA	0	0
12	Contract Held By	0	0
13	Contact Person:	0	0
15	SERVICE INTERVALS	0	0
20	The required service intervals depend largely on environmental conditions. The instructions given in this chapter apply to temperate zone environmental conditions where construction or wind-borne dust or other pollutants are not prevalent; servicing should be more frequent when operating conditions are severe.	0	0
30	WORK INSTRUCTIONS	0	0
40	STATIC FREQUENCY CONVERTER GPU ENCLOSURE: INSPECT THE CABINET ASSEMBLY FOR DENTS, CHIPPED OR GOUGED PAINT, LOOSE OR MISSING SCREWS, NUTS OR WASHERS, BROKEN LATCHES, OR WARPED DOORS. TOUCH UP PAINT, IF NECESSARY. TIGHTEN LOOSE SCREWS AND NUTS, REPLACE ANY MISSING SCREWS, NUTS OR WASHERS.	0	0
50	CONTROLS PRINTED CIRCUIT BOARDS: CHECK ALL CONTROLS FOR EASE OF OPERATION. DURING OPERATION, CHECK OPERATION OF ALL DISPLAYS. REPLACE ANY DEFECTIVE DISPLAY LAMPS. INSPECT PRINTED CIRCUIT BOARDS FOR A1, A2, A3 AND A4 GENERAL CONDITION. INSPECT ELECTRICAL WIRING FOR LOOSE CONNECTIONS, EVIDENCE OF SHORTING, PEELED INSULATION AND GENERAL DETERIORATION. REPAIR OR REPLACE DAMAGED WIRING. CHECK AND REPLACE FANS, IF NEEDED.	0	0
55	GPU ASSEMBLY INPUT POWER: INSPECT ELECTRICAL WIRING FOR BROKEN SOLDER CONNECTIONS, EVIDENCE OF SHORTING, PEELED INSULATION AND GENERAL DETERIORATION. REPAIR OR REPLACE DAMAGED WIRING. CHECK OR REPLACE FANS, IF NEEDED. CHECK AND REPLACE INDICATOR BULBS.	0	0
56	GPU OUTPUT POWER: INSPECT ALL CONTACTORS FOR LOOSE MOUNTING SCREWS, DEFECTIVE CONNECTIONS, EVIDENCE OF PHYSICAL DAMAGE, GENERAL DETERIORATION. TIGHTEN MOUNTING SCREWS, IF NECESSARY. REPAIR ANY DEFECTIVE ELECTRICAL CONNECTIONS. REPLACE ANY DEFECTIVE RELAY OR OUTPUT CONTACTOR. CHECK OR REPLACE FANS, IF NEEDED. CHECK AND REPLACE INDICATOR BULBS.	0	0
60	CLEANING	0	0
70	Avoid accumulation of dirt, dust, moisture and other foreign matter within an enclosure or at ventilation openings. Clean the control circuitry monthly by vacuum cleaner and by wiping away any accumulated moisture or lubricating matter with a cloth. Grease or heavy dirt deposits may be removed with cleaning solvent conforming to Federal Specification P.D. 680. Ensure GPU air intake and exhaust grilles remain clean to ensure proper cooling of the cabinet.	0	0
<b>Grand Total (14 Records):</b>		<b>0</b>	<b>0</b>

## JOHN WAYNE AIRPORT

Pasadena, Los Angeles County, California



## Procedure Tasks

Printed: 6/13/2013 10:48 AM

## Report Criteria

Record(s) selected from an Explorer, Matrix, or Smart Link

Task No	Task Action	Target Hours	Average Hours
<b>GROUND POWER UNIT SEMI PM</b>			
5	EQUIPMENT	0	0
10	Ground Power Units manufactured by INET Airport Systems	0	0
11	Contract Administered by: JWA	0	0
12	Contract Held By	0	0
13	Contact Person:	0	0
15	SERVICE INTERVALS	0	0
20	The required service intervals depend largely on environmental conditions. The instructions given in this chapter apply to temperate zone environmental conditions where construction or wind-borne dust or other pollutants are not prevalent; servicing should be more frequent when operating conditions are severe.	0	0
30	WORK INSTRUCTIONS	0	0
40	STATIC FREQUENCY CONVERTER GPU ENCLOSURE: INSPECT THE CABINET ASSEMBLY FOR DENTS, CHIPPED OR GOUGED PAINT, LOOSE OR MISSING SCREWS, NUTS OR WASHERS, BROKEN LATCHES, OR WARPED DOORS. TOUCH UP PAINT, IF NECESSARY. TIGHTEN LOOSE SCREWS AND NUTS, REPLACE ANY MISSING SCREWS, NUTS OR WASHERS.	0	0
50	CONTROLS PRINTED CIRCUIT BOARDS: CHECK ALL CONTROLS FOR EASE OF OPERATION. DURING OPERATION, CHECK OPERATION OF ALL DISPLAYS. REPLACE ANY DEFECTIVE DISPLAY LAMPS. INSPECT PRINTED CIRCUIT BOARDS FOR A1, A2, A3 AND A4 GENERAL CONDITION. INSPECT ELECTRICAL WIRING FOR LOOSE CONNECTIONS, EVIDENCE OF SHORTING, PEELED INSULATION AND GENERAL DETERIORATION. REPAIR OR REPLACE DAMAGED WIRING. CHECK AND REPLACE FANS, IF NEEDED.	0	0
55	GPU ASSEMBLY INPUT POWER: INSPECT ELECTRICAL WIRING FOR BROKEN SOLDER CONNECTIONS, EVIDENCE OF SHORTING, PEELED INSULATION AND GENERAL DETERIORATION. REPAIR OR REPLACE DAMAGED WIRING. CHECK OR REPLACE FANS, IF NEEDED. CHECK AND REPLACE INDICATOR BULBS.	0	0
56	GPU OUTPUT POWER: INSPECT ALL CONTACTORS FOR LOOSE MOUNTING SCREWS, DEFECTIVE CONNECTIONS, EVIDENCE OF PHYSICAL DAMAGE, GENERAL DETERIORATION. TIGHTEN MOUNTING SCREWS, IF NECESSARY. REPAIR ANY DEFECTIVE ELECTRICAL CONNECTIONS. REPLACE ANY DEFECTIVE RELAY OR OUTPUT CONTACTOR. CHECK OR REPLACE FANS, IF NEEDED. CHECK AND REPLACE INDICATOR BULBS.	0	0
60	CLEANING	0	0
70	Avoid accumulation of dirt, dust, moisture and other foreign matter within an enclosure or at ventilation openings. Clean the control circuitry monthly by vacuum cleaner and by wiping away any accumulated moisture or lubricating matter with a cloth. Grease or heavy dirt deposits may be removed with cleaning solvent conforming to Federal Specification P.D. 680. Ensure GPU air intake and exhaust grilles remain clean to ensure proper cooling of the cabinet.	0	0
<b>Grand Total (14 Records):</b>		<b>0</b>	<b>0</b>

**Attachment H**  
**Prevailing Wage Determination**  
**PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF**  
**INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE**  
**PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773, & 1773.1**

**Issue Date:** June 13, 2018

**Determination:** S-2018-2

**Craft:** Stationary Engineer<sup>#</sup>

**Reference:** 63-501-25

**Project:** This prevailing wage determination is being issued pursuant to your request, received on April 18, 2018, for the Maintenance and Repair of Baggage Conveyor and Carousels and Passenger Boarding Bridges at John Wayne Airport in Orange County. This wage determination applies only to the project(s) for which it was requested. If this contract is modified or extended, a new determination will be required.

**Wage Rates:** **Basic Straight-Time**

**Classification(s)**

Stationary Engineer

Utility Engineer

**Hourly Rate <sup>a</sup>**

\$39.38\*

\$16.02\*

**Employer Payments: (Labor Code Section 1773.1)**

**Health & Welfare:**

\$7.29 per hour worked / \$1262.99

per month **Pension:**

(Stationary Engineer)

\$7.00 per hour worked

(Utility Engineer)

\$5.00 per hour

worked **Vacation:**

(Stationary Engineer)  
service)

\$1.51<sup>b</sup> per hour worked (after 1 year of

(Utility Engineer)

\$0.62<sup>c</sup> per hour worked (after 1 year of

service) **Holidays:**

(Stationary Engineer)

\$1.51 per hour worked

(Utility Engineer)

\$0.62 per hour worked

**Training/Other Payments:**

\$0.33 per hour worked

**Straight time hours:**

Eight (8) hours per day, forty (40) hours in any five (5) consecutive workdays within a workweek.

**Overtime:** One and one-half times (1 1/2X) the basic straight-time hourly rate is paid for the first four (4) daily overtime hours, and the first ten (10) hours worked on the sixth (6<sup>th</sup>) day of any workweek. All other time is paid at double (2X) the basic straight-time hourly rate, except work on holidays, which is paid at two and one-half times (2 1/2X) the basic straight-time hourly rate.

**Recognized Holidays:**

New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, and three (3) floating holidays. In the event a holiday falls upon a Sunday, the following Monday shall be considered as the holiday. In the event a holiday falls upon a Saturday it shall be observed on the preceding Friday.

**Travel and Subsistence:**

There are no required travel and subsistence payments for these classifications.

<sup>#</sup> Indicates an apprenticeable craft. Rates for apprentices will be furnished on request.

<sup>a</sup> All employees scheduled the second (2<sup>nd</sup>) or swing shift shall receive in addition to their regular straight time rate of pay a shift differential equal \$0.80.

All employees scheduled the third (3<sup>rd</sup>) or graveyard shift shall receive in addition to their regular straight time rate of pay a shift differential equal \$1.00.

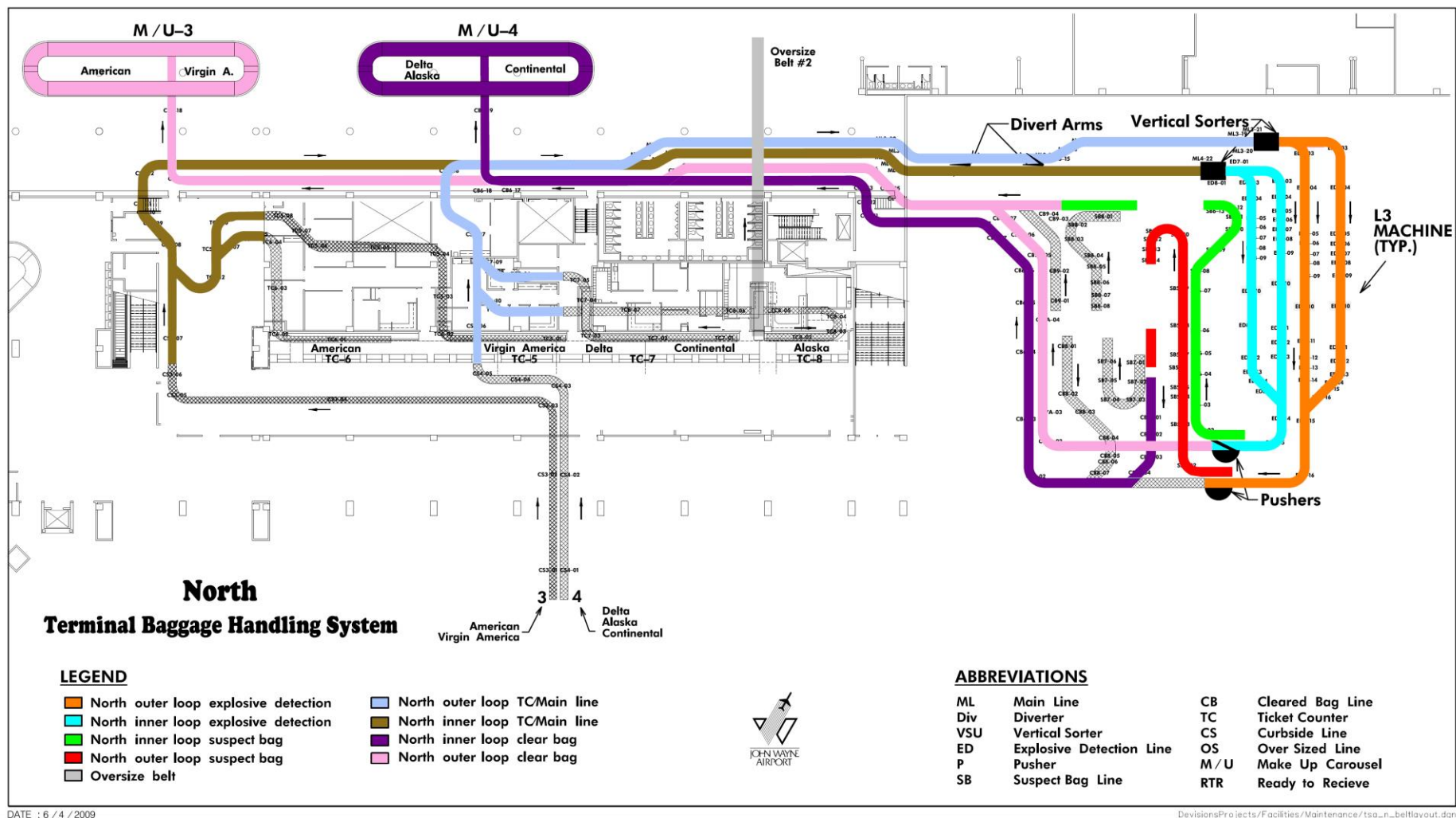
<sup>b</sup> \$2.27 after 5 years of service; \$3.03 after 10 years of service; \$3.79 after 20 years of service.

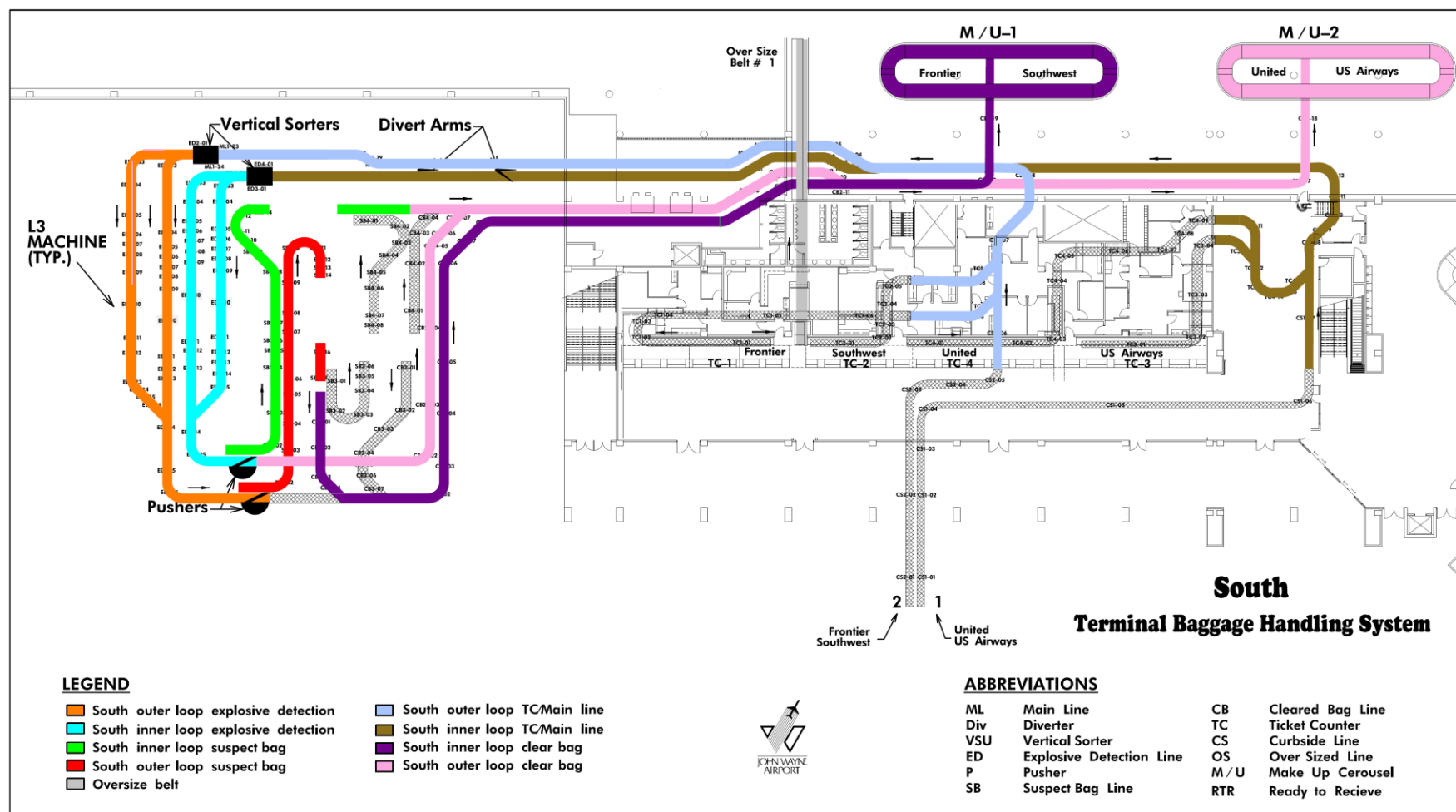
<sup>c</sup> \$0.92 after 5 years of service; \$1.23 after 10 years of service; \$1.54 after 20 years of service.

\* There are no increases applicable to this determination.



**Attachment I**  
**Baggage Handling System Diagrams**





DATE : 6 / 4 / 2009

DevisionsProjects/Facilities/Maintenance/tsa\_s\_beltlayout.dgn

