SECTION 111300

LOADING DOCK EQUIPMENT

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 2 Specification with primarily editable text; therefore, most of the text can be edited, but there is some required text which is noted within the Section with a “Note to Specifier.” Do not revise these paragraphs without an approved Deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

**If the project includes pit mounted, surface mounted, or portable scissors type dock lifts, then Section 111304 - Scissors Type Dock Lift must also be included in the Project Manual.**

**All dock equipment, including flip ramps, dock levelers, lifts, door seals, truck shelters, truck restraints, chocks, and bumpers must be coordinated with platform door sizes and applicable USPS truck fleet requirements. Provide protective barriers, such as bollards, as required to protect equipment and door tracks. Some portions of the text will require editing to suit closed platforms with overhead doors or open platforms.**

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1. GENERAL
	1. SUMMARY
		1. Section Includes:
			1. Dock bumpers.
			2. Dock seals.
			3. Air powered pit type dock levelers.
			4. Hydraulic edge-of-dock levelers (flip ramp).
			5. Truck restraints with integrated control panel and automatic light communication package.
			6. Manual wheel chocks.
			7. Dual function, scissors type dock lift/dock leveler.
		2. Related Documents: The Contract Documents, as defined in Section 011000 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other Documents.
		3. Related Sections
			1. Section 017704 – Closeout Procedures and Training

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**NOTE TO SPECIFIER**

Keep Related Section 083613 below only for powered dock levelers in enclosed platforms with overhead doors.

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* + - 1. Section 083613 - Sectional Overhead Doors: Coordination of interlock sensor switch.
			2. Section 111304 - Scissors Type Dock Lift.
			3. Section 265100 – Interior Lighting (LED-Solid State): Type P1, LED Dock Light.
	1. REFERENCES
		1. American National Standards Institute (ANSI):
			1. ANSI MH29.1 - Safety Requirements for Industrial Scissors Lifts.
			2. ANSI MH30.1 - Loading Dock Levelers and Dockboards.
			3. ANSI MH30.3 - Vehicle Restraining Device.
	2. SUBMITTALS
		1. Section 013300 - Submittal Procedures: Procedures for submittals.
			1. Product Data: Indicate unit dimensions, and details of construction materials and finish, installation details, method of anchorage, roughing-in measurements, and accessories.
			2. Shop Drawings: Indicate required opening dimensions, tolerances of opening dimensions, placement dimensions, and perimeter conditions of construction.
			3. Assurance/Control Submittals:
				1. Test Reports: Report from approved Independent Testing Agency indicating compliance of Dock Leveler with requirements of ANSI MH30.1, Scissors Lift with ANSI MH29.1, and Vehicle Restraining Device with ANSI MH30.3.
				2. Certificates: Manufacturer's certificate that Products meet or exceed specified requirements.
				3. Qualification Documentation: Submit documentation of experience indicating compliance with specified qualification requirements.
		2. Section 017704 – Closeout Procedures and Training: Procedures for closeout submittals.
			1. Operating and Maintenance Data: Operating and maintenance instructions and parts lists.
			2. Training Manuals: Complete set of all equipment training manuals.
			3. Submit written special warranty with forms completed in United States Postal Service name and registered with manufacturer as specified in this section.
	3. QUALITY ASSURANCE
		1. Dock Levelers: Conform to requirements of ANSI MH30.1.
		2. Scissor Lifts: Conform to requirements of ANSI MH 29.1.
		3. Vehicle Restraining Devices: Conform to requirements or ANSI MH30.3.
		4. Qualifications:
			1. Manufacturer: Company specializing in manufacturing products specified with minimum 20 years documented experience.
			2. Installer: Company specializing in performing the Work of this Section with minimum 5 years documented experience.
	4. DELIVERY, STORAGE, AND HANDLING
		1. Section 016000 - Product Requirements: Transport, handle, store, and protect Products.
1. PRODUCTS

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**NOTE TO SPECIFIER**

Verify manufacturer information, product numbers, and availability at time of Project Manual preparation for Project.

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* 1. DOCK BUMPERS

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**NOTE TO SPECIFIER**

**REQUIRED**: Do not revise DOCK BUMPERS without a written Deviation from USPS.

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* + 1. Dock Bumpers at Dock Leveler Locations:
			1. Laminated rubber, ozone resistant, with two 3/4-inch tie rods and 3/8-inch steel angle at both ends.
			2. Thickness from wall, vertical height, width, and profile of bumpers indicated on Drawings.
			3. Pre-drilled, countersunk mounting holes.
		2. Dock Bumpers at Non-Leveler Locations:
			1. Molded rubber, ozone resistant, nylon or polyester reinforced, minimum Shore A Durometer of 80, tensile strength of 950 to 1050 psi.
			2. Thickness from wall, vertical height, width, and profile of bumpers indicated on Drawings.
			3. Pre-drilled, countersunk mounting holes.
		3. Attachment Hardware: 3/4-inch diameter galvanized bolts and L-shape anchor rods cast into concrete.
	1. DOCK SEALS
		1. Manufacturers/Models:
			1. Blue Giant: BG-200 Head Curtain Dock Seal.
			2. Chalfant: 101 Curtain Dock Seal.
			3. Kelley: DSH-102-WP4-WF with head curtain.
			4. McGuire: TS103 with head curtain.
			5. Nordock: FP Series with head curtain.
			6. NOVA: FP Series with head curtain.
			7. Pioneer: PF Series with head curtain.
			8. Rite-Hite: Model 1D3C self-locking head curtain.
			9. Serco: S-600 Series with head curtain.
		2. Components:
			1. Fixed Side Pads: 12-inch width, length equal to clear opening height, maximum 12-inch projection, square profile.
			2. Fixed Head Pad with Curtains: 24-inch height, length 2 feet longer than clear opening width, maximum 12-inch projection. Head pads accommodate trucks from 12 feet to 13 feet 6 inches.
			3. Shelters: Soft-sided dock shelter with flexible side supports and curtains able to withstand trailer impact for dock doors wider than 8 feet.
			4. Wear pleats: 12-inch-wide to comply with tear strength and abrasion resistance of Federal Standard 191. Pleats installed at 4-inch spacing.
			5. Effective seal for trailers ranging in height from 12 feet to 13 feet 6 inches off pavement, based on door size, dock height, and driveway approach.
			6. Pad, shelter and wear pleat fabric to be minimum of 40-ounce vinyl.
			7. Fabric color: black.
		3. Warranty: Two-year parts and labor
	2. AIR POWERED PIT TYPE DOCK LEVELERS
		1. Manufacturers/Models:
			1. Blue Giant: AB Series.
			2. Kelley: AFX Series, with two maintenance struts.
			3. Nordock: AD – USPS, with two maintenance struts.
			4. Poweramp: AP Series, with two maintenance struts.
			5. Rite Hite: RHA 4002.
			6. Serco: AB Model, with two maintenance struts.
		2. Description:
			1. Operation: Power activated push button through full working range.
			2. Deck Width: 6 feet.
			3. Deck Length: [8 feet] [10 feet] with additional [16 inch] [18 inch] [20 inch] lip.
			4. Operating Range: Minimum 12 inches above to minimum 10 inches below dock level.
			5. Capacity: ANSI MH14.1, 1987, Minimum 29,000 pounds.
			6. Dock to truck/trailer cycle time: Maximum 30 seconds.
			7. Leveler electrical requirements: Coordinate wiring requirements and current characteristics with building electrical and emergency power systems.
		3. Operation:
			1. When pressure is applied to push button, leveler platform rises pneumatically through a high volume, low pressure industrial fan motor and PVC lifting bag system.
			2. Leveler falls slowly to truck bed when button is released.
			3. Lever lip automatically extends onto truck and is yieldable.
			4. One push button controls both platform and lip operations.
		4. Safety Features:
			1. Automatic safety device to prevent a drop beyond dock level when leveler is above dock and below dock stops when leveler is below dock level
			2. Maintenance struts to withstand 10,000 pounds of fork truck roll-on, capable of accepting OSHA lockout/tagout pad locks with the lockout/tagout instructions prominently displayed in durable fashion, and one of following:
				1. Two outbound maintenance struts secured to the leveler, to support leveler platform with an additional integral maintenance strut for separate lip support.
				2. One central maintenance strut supporting both the leveler and the lip for maintenance purposes.

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**NOTE TO SPECIFIER**

Modify the paragraph below for optional safety gate. Consult with Project Manager and facility before specifying. Not all of these products are equivalent, and some have multiple options and accessories which must be specified.

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* + - 1. Dock safety gate:
				1. Blue Giant: Loading Dock Gate, [Size,options].
				2. Kelley: Dock-Guard Safety Gate, [Size,options].
				3. Nordock: Fall-Stop Safety Barrier Gate, [Size,options].
				4. Rite Hite: Dok-Guardian, [Size,options]
				5. Serco: Dock Impact Barrier, [Size,options].
		1. Warranty:
			1. Rated in capacity to match project application, or a minimum of ANSI MH14.1, 1987, and provide a minimum of 10-year parts and labor warranty from the manufacturer on all major structural components such as front hinge assembly, front hinge pins, platform assembly, rear hinges, rear hinge pins, sub frame assembly and working range toe guards.
			2. Minimum 5-year parts and labor warranty from the manufacturer on all major power activated lifting mechanisms such as air hoses, fittings, motors, lifting bag assembly, etc.
	1. HYDRAULIC EDGE-OF-DOCK DOCK LEVELERS (FLIP RAMP)
		1. Manufacturers/Models:
			1. Blue Giant: MD-CH Series
			2. Chalfant: HED 66
			3. Kelley: KH Series
			4. McGuire: HED 6620.
			5. Nordock: EFH – Full Hydraulic
			6. Rite-Hite: RHE 3 Hydraulic.
			7. Serco: SH Series.
		2. Description:
			1. Operation: Hydraulic.
			2. Deck Width: 30 inches.
			3. Deck Length: 66 inches.
			4. Operating Range: 5 inches above or below dock level.
			5. Capacity: 20,000 pounds minimum.
			6. Toe Guards: Full range.
			7. Lip: 17 inches.
	2. TRUCK RESTRAINTS WITH INTEGRATED CONTROL PANEL AND AUTOMATIC LIGHT COMMUNICATION PACKAGE

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**NOTE TO SPECIFIER**

***REQUIRED****: Do not revise this article, except where noted, without an approved deviation from USPS Headquarters, Facilities Program Management. Not all manufacturer’s truck restraint systems will work with an integrated control panel from a different manufacturer.*

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* + 1. Truck Restraint:
			1. Manufacturer/Model as Basis for Design: Kelley Star 4 Vehicle Restraint.
			2. Description: Electrically operated, non-impact, restraint device designed to engage trailer’s rear-impact guard and hold truck at loading dock.
			3. Operation: The restraint is activated and released at inside-mounted integrated control panel. Sensor bar signals contact of hook with the rear impact guard of trailer.
			4. Restraining Capacity: 32,000 pounds minimum.
			5. [Manufacturer’s standard concrete anchor bolts and reinforcing plate for field mounting to concrete dock face.] [Manufacturer’s new construction mounting plate, poured in place into dock face with studs for field bolting of restraint back plate.]

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**NOTE TO SPECIFIER**

***REQUIRED****: The product below may only be used with an approved deviation from USPS Headquarters, Facilities Program Management. Delete Paragraph B if not used. A ground mounted vehicle restraint may be needed at loading dock positions that regularly receive trucks with an on-board lift gate, since the operation of the lift gate can damage a truck restraint mounted to the dock face.*

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* + 1. Truck Restraint:
			1. Manufacturer/Model as Basis for Design: Serco SL60 Ground Mounted Vehicle Restraint.
			2. Description: Electrically operated, non-impact, ground mounted restraint device designed to engage trailer’s rear-impact guard and hold truck at loading dock.
			3. Operation: The restraint is activated and released at the inside-mounted integrated control panel specified below.
			4. Restraining Capacity: 32,000 pounds minimum.
			5. Manufacturer’s standard concrete anchor bolts and brackets for ground mounting to concrete apron.
		2. Integrated Control Panel and Automatic Light Communication Package:
			1. Manufacturer/Model as Basis for Design: Kelley Master Control Panel and red/green light LED communication system.
			2. Description: Single control panel at each dock position with individual push button operation to control the truck restraint, leveler, [and ]LED dock light[, and overhead door]. Panel communicates with automatic interior and exterior LED signal lights.
				1. Panel: NEMA 12, automatic motor starter, thermal overload, 2-amp control breaker with reset capability. All components individually circuit protected.
				2. Panel Graphics: Clear text and illustrative instructions adjacent to push buttons, and
				3. Mushroom style “Stop” button that ceases all dock devices when depressed and does not require continuous pressure.
				4. Selector Switch: Red rotating on/caution switch to maintain caution mode during non-engagement periods.
				5. Keyed Override: Panel includes removable key override for trucks with damaged or missing ICC bars. In override mode, audible alarm is silenced, outside lights remain red, and inside lights show caution.
				6. Caution Sign: Single surface-mounted exterior sign with forward facing and reversed letters.
				7. Signal Lights: Set of illuminated exterior and interior LED signal lights to indicate device's status to both controller and truck driver.
				8. Alarm: Audible alarm indicating that truck restraint did not engage trailer’s rear-impact guard.
			3. Operation:

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**NOTE TO SPECIFIER**

***REQUIRED****: Do not revise the operation of the signal lights, except to include or remove the overhead door condition.*

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Equipment State 1 State 2 Condition Required for State 2

Outside Signal RED GREEN State 2: Truck can enter or leave dock position:

Light Truck Restraint in disengaged position.

 Leveler in neutral position.

 [Overhead Door fully closed.]

Inside Signal RED GREEN State 2: Truck may be loaded or unloaded:

Light Truck Restraint has engaged trailer’s

 rear-impact guard.

 Leveler lip extended onto truck bed.

 [Overhead Door fully open.]

Horn OFF ON State 2: Horn sounds:

 Truck Restraint did not engage trailer’s

 rear-impact guard. Keyed override required.

Leveler NOT OPERABLE State 2:Leveler operates:

 OPERABLE Truck Restraint has engaged trailer’s

 rear-impact guard.

 [Overhead Door fully open.]

Truck Restraint ENGAGED DISENGAGED State2: Truck Restraint has disengaged from

 trailer’s rear-impact guard.

 Leveler in neutral position.

 [Overhead Door fully closed.]

* 1. MANUAL WHEEL CHOCKS
		1. Fabric-reinforced laminated rubber with handle; two per truck position.
		2. Accessories:
			1. Wall mounted storage bracket; two per truck position.
			2. 15-foot galvanized chain; two per truck position.
			3. Wall mounted sign, “CAUTION – CHOCK WHEELS”.
	2. DUAL FUNCTION SCISSORS TYPE DOCK LIFT/DOCK LEVELER
		1. Manufacturers/Models:
			1. Rite Hite: Dual-Dok Series.
		2. Description:
			1. Stationary single-scissor-type hydraulic dock lift/hydraulic dock lever designed for permanent, recessed, installation in preformed concrete pit.
			2. Self-contained electric hydraulic power unit for raising and lowering of the lift, controlled from a remotely located push-button station.
			3. Rated lifting capacity for scissors lift operation: ANSI MH14.1, 16,000 pounds minimum.
			4. Roll-Over Capacity: 10,000 pounds.
			5. Vertical travel for scissors lift operation: Outside pavement to dock level.
			6. Operating range for leveler operation: 12 inches above to 20 inches below dock level.
			7. Travel Speed: 8 feet per minute up or down.
			8. Lowered Height: Maximum 8 inches.
			9. Travel alarm with bell volume control.
			10. Safety Barrier: At pit perimeter with two permanent sections of rail approximately 4 feet high spanning the length of the pit, and a removable [side swing] [vertical rise] gate, approximately 4 feet high, at the front entry to the pit.
			11. Communication Package: Inside and outside communication lights and signs.
			12. Front Pit Enclosure: Extends from side to side and automatically extends or contracts with the heigh of the lift platform.

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**NOTE TO SPECIFIER**

Edit PLATFORM SIZE below to indicate 10-foot or 12-foot unit. If using multiple sizes, then refer to drawings and indicate sizes on drawings.

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* + - 1. Platform Size: [6 foot 6 inches wide by [10][12] feet long, excluding 16 inch lip.] [As indicated on Drawings.]
		1. Electrical Requirements: Coordinate wiring requirements and current characteristics with building electrical and emergency power systems.
1. EXECUTION
	1. EXAMINATION
		1. Section 017300 - Execution: Verification of existing conditions before starting work.
		2. Verification of Conditions: Verify that field measurements, surfaces, substrates, and conditions are as required, and ready to receive Work.
		3. Report in writing to Contracting Officer prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.
		4. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the United States Postal Service.
	2. INSTALLATION
		1. Dock bumpers: Install in accordance with manufacturer's instructions. Set square and level.
		2. Dock seals: Install in accordance with manufacturer's instructions. Set square and level.
		3. Signage: Install in accordance with manufacturer's instructions. Set square and level.
		4. Air powered pit type dock levelers: Install unit in prepared opening in accordance with manufacturer's instructions. Set square and level and anchor unit securely.
		5. Hydraulic edge-of-dock levelers (flip ramp): Install unit in prepared opening in accordance with manufacturer's instructions. Set square and level and anchor unit securely.

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**NOTE TO SPECIFIER**

Edit below to as appropriate for an open dock without overhead doors, or a closed dock.

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* + 1. Truck restraints with integrated control panel and automatic light communication package: Install in accordance with manufacturer's instructions. Set restraint device square and level and anchor securely. Connect control panel wiring with truck restraint, leveler, LED dock light, and overhead door sensor.
		2. Manual wheel chocks: Wall mount storage brackets at each truck position, attach chains to brackets and chocks. Mount signs as directed.
		3. Touch‑up all field welds with primer.
	1. ADJUSTING
		1. Adjust all products for smooth and balanced operation.
	2. OPERATING INSTRUCTION
		1. Section 017704 – Closeout Procedures and Training: Procedures for training.
		2. Provide on-site instruction to review the operation of all products and detail any common troubleshooting or maintenance that is required to ensure normal operation.
		3. Provide one complete set of equipment operating, installation, and programming manuals, and warranties that will remain at the installed location.

END OF SECTION

USPS MPF Specification Last Revised: 10/1/2022